D-T101/T401/T405

SERVICE MANUAL

US Model
Canadian Model
D-T401/T405
AEP Model
UK Model
E Model
Chinese Model
Australian Model
D-T101/T401/T405
Tourist Model
D-T405

Photo : D-T401

Model Name Using Similar Mechanism	D-265/365
CD Mechanism Type	CDM-2811CAA
Optical Pick-Up Name	DAX-11C

SPECIFICATIONS

CD player section

System
Compact disk digital audio system
Laser diode properties
Material:GaAIAs
Wavelength:λ=780nm
Emission duration:Continuous
Laser output:less than 44.6uW (measured at 200mm away from the objective lens surface)
Error correction
Sony Super Stlategy Cross Interleave Reed Solomon Code
D-A conversion
1-bit quartz time-axis control
Frequency response
20-20,000Hz $^{+1}_{-2}$dB (measured by EIAJ CP-307)
Output(at 4.5V input level)
Headphones (stereo minijack)
15mW+15mW at 16ohms
Line output (stereo minijack)
Output level 0.7Vrms at 50kilohms
Recommended load impedance over 10 kilohmes
Optical digital output (optical output connector)
Output level–21–15dBm
Wavelength:630-690nm at peak level

Radio section

Frequency range
FM:87.5-108.0MHz
AM:531-1,602kHz
Antenna
FM:Headphones coad antenna
AM:Built-in ferrite bar antenna

Genaral

For the area code of the model you purchased, check the upper left side of the bar code on the package.
Power requirements
- Sony BP-DM10 Rechargeable battery: 2.4V DC,Ni-Cd,650mAh
  Sony BP-DM20 Rechargeable battery: 2.4V DC,Ni-MH,1,200mAh
- Two LR6 (Size AA) batteries:3 V DC
- AC power adaptor (DC IN 4.5V jack)

US/CND/E92model:220-230V, 50/60Hz
UK model:230-240V,50Hz
EA model:110-240V,50/60Hz
AUS model:240V,50Hz
JEW/E33 model:100-240V,50/60Hz
- Sony CPM-300P mount plate for use on car battery:4.5 V DC

Dimensions(w/h/d) (without projecting parts and controls)
Approx.132×34.0×135.6
($5^{1}/_{4}$×$1^{1}/_{4}$×$5^{3}/_{8}$in.)
Mass (without rechargeable battery)
Approx.280g (9.9oz)
Operating temperature
5°C-35°C (41°F-95°F)

Supplied accessories

T405
For the area code of the model you purchased, check the upper left side of the bar code on the package.
AC power adaptor (1)
Head phones (1)
Earphones (1)
Rechargeable battery (1)
Battery case (1)
Connecting cord (phone plug×2↔stereo miniplaug) (1)
Carrying case (1)

a) Supplied with US model
b) Not supplied US model
c) Not supplied with US,CND and E92 models
d) Not supplied with JEW, AEP, UK and CEF models

Design and specifications are subject to change without notice

— Continued on next page —

FM/AM COMPACT DISC COMPACT PLAYER

MICROFILM

SONY®

T101
Supplied accessories
AC power adaptor(1)
Earphones(1)
Connecting cord(phone plugx2 stereo miniplug)(1)

T401
AC power adaptor(1)
Headphones(1)
Earphones(1)
Connecting cord(phone plugx2 stereo miniplug)(1)
a)Supplied with US model
b)Not supplied with US model
c)Not supplied with AEP,UK and CEF models

Recommended accessories
Mount plate CPM-300P
Mount kit CPM-450PC
Mount kit CPM-300PC

Car connecting pack CPA-9
Car battery cord with car connecting pack DCC-E26CP
Car battery cord DCC-E245
Active speaker system SRS-A21,SRS-A41, SRS-A71
Rechargeable battery BP-DM10,BP-DM20
Connecting cord RK-G129HG
Optical digital connecting cord POC-5B
POC-10B,POC-15B,POC-5AB,POC-10AB,POC-15AB
AC power adaptor AC-E45HG
Stereo headphones MDR-35,MDR-E848
Sold in Japan only

Your dealer may not handle some of the above listed accessories.Pleaseask the dealer for detailed information about the accessories in your country.

NOTE:
In this set, there are a former type (board suffix-12) and a new type (board suffix-13).
In electrical adjustment, between a former type and a new type, there is a difference of measurement point.

Flexible Circuit Board Repairing
- Keep the temperature of the soldering iron around 270°C during repairing.
- Do not touch the soldering iron on the same conductor of the circuit board (within 3 times).
- Be careful not to apply force on the conductor when soldering or unsoldering.

Notes on chip component replacement
- Never reuse a disconnected chip component.
- Notice that the minus side of a tantalum capacitor may be damaged by heat.

NOTES ON LASER DIODE EMISSION CHECK
The laser beam on this model is concentrated so as to be focused on the disk reflective surface by the objective lens in the optical pick-up block. Therefore, when checking the laser diode emission, observe from more than 30cm away from the objective lens.

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SAFETY-RELATED COMPONENT WARNING!!

COMPONENTS IDENTIFIED BY MARK ⚠ OR DOTTED LINE WITH MARK ⚠ ON THE SCHEMATIC DIAGRAMS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.

ATTENTION AU COMPOSANT AYANT RAPPORT À LA SÉCURITÉ!

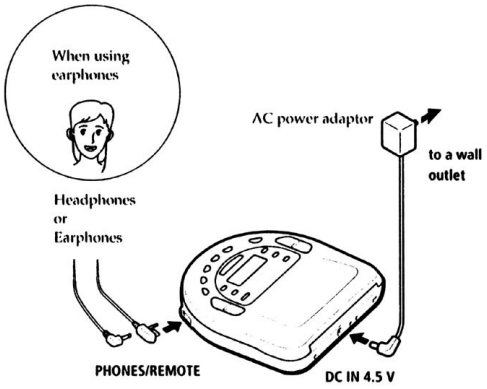
LES COMPOSANTS IDENTIFÉS PAR UNE MARQUE ⚠ SUR LES DIAGRAMMES SCHÉMATIQUES ET LA LISTE DES PIÈCES SONT CRITIQUES POUR LA SÉCURITÉ DE FONCTIONNEMENT. NE REMPLACER CES COMPOSANTS QUE PAR DES PIÈSES SONY DONT LES NUMÉROS SONT DONNÉS DANS CE MANUEL OU DANS LES SUPPÉMENTS PUBLIÉS PAR SONY.

This section is extracted from instruction manual.

Playing a CD right away!

If you want to play a CD right now, choose to use your Discman on house current. Other choices are the following three: rechargeable battery, dry batteries (see "Power Sources" on the reverse side) and car battery.

1 Connect

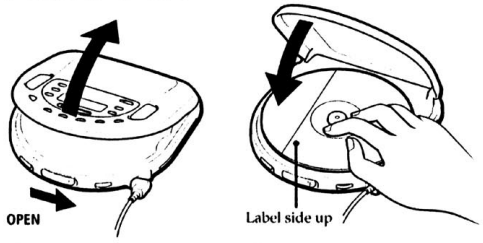


For the models supplied with the AC plug adaptor
If the AC power adaptor does not fit the wall outlet, use the AC plug adaptor.

For the models supplied with the remote control
- Connect the microplug of the earphones to the remote control, not to the PHONES/ REMOTE jack of the Discman.
- Connect the earphones to the remote control firmly. A loose connection may cause noise during playback.

For the customers in the USA
U2 model supplied with headphones does not come supplied with a remote control.

2 Place a CD



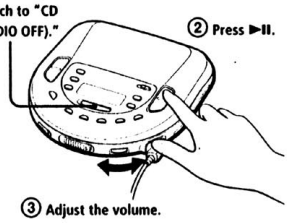
① Slide OPEN to open the lid.

② Fit the CD to the pivot.

3 Play

① Set the CD/RADIO switch to "CD (RADIO OFF)."

② Press ►II.



③ Adjust the volume.

To stop play, press ■.

Setting of the CD/RADIO switch

When listening to the CD

When listening to the radio (See "Radio operations" on the reverse side.)

To	Press
Pause (main unit only)	►II
Resume play after pause (main unit only)	►II
Find the beginning of the current track (AMS*)	I◄◄ (I◄◄ side of ► on the remote control) once**
Find the beginning of previous tracks (AMS)	I◄◄ (I◄◄ side of ►) repeatedly**
Find the beginning of the next track (AMS)	►►I (►►I side of ►) once**
Find the beginning of succeeding tracks (AMS)	►►I (►►I side of ►) repeatedly**
Go forward quickly	Hold down ►►I (►►I side of ►) **
Go backwards quickly	Hold down I◄◄ (I◄◄ side of ►) **

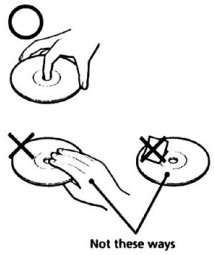
*AMS = Automatic Music Sensor
**These operations are possible during both play and pause.

To remove the CD
Remove the CD while pressing the pivot.

Notes on controlling the volume with the remote control
Set the VOL (volume) control on the remote control to MAX. Then adjust the volume on the Discman to the level that you want to be the maximum volume of the remote control.

Notes on display
- When you press ►II or ► (when RESUME is set to OFF), the total number of tracks in the CD and the total playing time appear for about 2 seconds.
- During play, the track number and the elapsed playing time of the current track appear.
- During pause, the elapsed playing time flashes in the display.
- Between tracks, the time to the beginning of the next track will appear with the "–" indication.

Notes on handling CDs
- To keep the CD clean, handle it by its edge. Do not touch the surface.
- Do not stick paper or tape onto the CD.
- Do not expose the CD to direct sunlight or heat sources such as hot air ducts. Do not leave the CD in a car parked under direct sunlight.

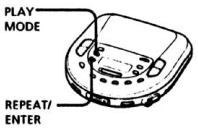


Not these ways

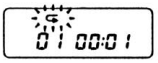
►Other CD Operations

Playing tracks repeatedly (Repeat Play)

You can play tracks repeatedly in normal, INTRO PGM, shuffle or RMS (Random Music Sensor) play modes. Repeat all the tracks or only one track.

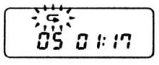


To repeat all the tracks
Press REPEAT/ENTER during play.
The "⊆" indication appears.

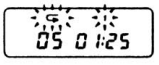


To cancel repeat play, press REPEAT/ENTER again.

To repeat a single track
1 Press REPEAT/ENTER while the track you want to repeat is playing.
The "⊆" indication appears.



2 Press PLAY MODE repeatedly until "1" appears.

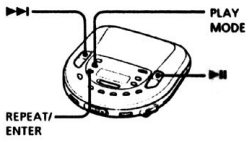


To repeat another track, press I◄◄ or ►►I.

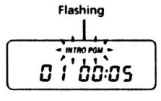
To cancel repeat play, press REPEAT/ENTER again.

Playing only the tracks you want (INTRO PGM Play)

You can choose and play your favorite tracks by scanning through the beginning of each track in a CD.



1 During play, press PLAY MODE repeatedly until "INTRO PGM" flashes.



2 Press ►II to start scanning .
The Discman plays about the first 15 seconds of each track and "INTRO PGM" flashes faster.

3 Press REPEAT/ENTER while the track you want is playing. To skip the track, press ►►I or just wait for the next track.

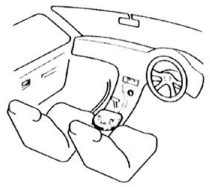
After you have gone through the CD, "INTRO PGM" stops flashing and the tracks you have chosen play automatically.

To finish programming before going through the whole CD, press ►II. The selected tracks will be played.

To cancel INTRO PGM play, press PLAY MODE repeatedly until the play mode indication disappears from the display.

Playing a CD in a car

You can use your Discman in a car as illustrated below.



To connect your Discman to a car cassette deck, you need the following accessories:
- Car connecting pack CPA-9
- Car battery cord DCC-E245

or,
- Mount kit CPM-300PC (Mount plate + Car connecting pack + Car battery cord)

or,
- Car battery cord with car connecting pack DCC-E26CP

Refer to the instruction manual of each accessory for details.

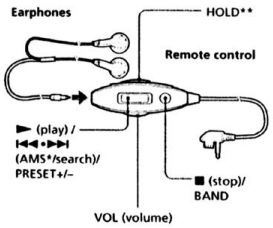
When you use the CPM-300PC mount kit/CPM-300P mount plate
Attach the car mount adaptor supplied to the CPM-300PC/300P before installing the Discman.

Notes
- Do not put the Discman on the dashboard.
- Do not leave the Discman in a car parked under sunlight.
- Use a Sony car connecting pack for reducing noise.

Switched ignition function
With this feature, your Discman stops automatically when you turn off the engine of the car. (This function is not possible with some cars depending on the model).

Using the remote control

For the customers supplied with the remote control
You can use the remote control as the wired remote control.

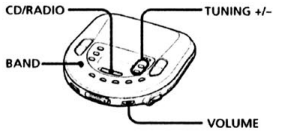


* Automatic Music Sensor
**When you are not using the remote control, slide HOLD in the direction of the arrow. To unlock, slide HOLD back.

Note
- Use only the supplied remote control. You cannot operate this unit with the remote control supplied with other models.

►*Radio operations*

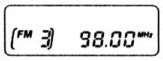
Listening to the radio



1 Set the CD/RADIO switch to "RADIO."

2 Press BAND until the band you want appears.
Each time you press the button, the display changes: FM1 → FM2 → FM3 → FM4 → FM5 → AM.

3 Press TUNING +/– to tune in the station you want and adjust the volume.



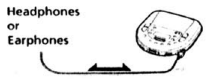
To turn off the radio
Set the CD/RADIO switch to "CD (RADIO OFF)."

Note
When you do not listen to the radio, set the CD/RADIO switch to "CD (RADIO OFF)" to save the battery power.

To tune in the station quickly
Hold down TUNING +/– in step 3 until the frequency digits begin to change in the display. The Discman automatically scans the radio frequencies and stops when it finds a clear station.

To improve broadcast reception

For FM, extend the headphones/earphones cord.



For AM, reorient the Discman itself.

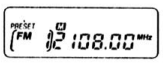
Presetting radio stations

You can store radio stations into the Discman's memory. You can preset up to 30 stations, 5 for each band (FM1, FM2, FM3, FM4, FM5 and AM) in any order. Once you've preset the stations, press one of the 1 - 5 buttons to tune in your favorite stations.

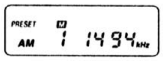
1 Tune in the station you want.

2 Hold down one of the 1 - 5 buttons that you want to preset the new station on for more than 2 seconds.
When the station is preset successfully, the beep sounds and the indications "PRESET" and M appear in the display. The new station replaces the old one.

FM:



AM:



Playing preset radio stations

1 Press BAND to select the band.

2 Press the number button to tune in a stored station.

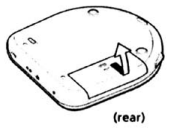
►*Power Sources*

Using rechargeable battery

Charge the rechargeable battery before using it for the first time.
You can use either BP-DM10 or BP-DM20 rechargeable battery for this unit. You can use them in the same way, but their charging time and battery life are different. Check the model number of your rechargeable battery, and use it.

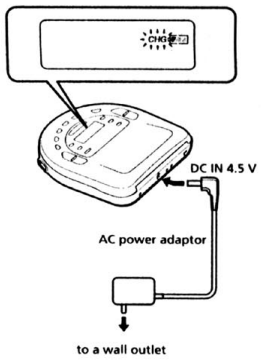
1 Set the CD/RADIO switch to "CD (RADIO OFF)."

2 Open the lid of the battery compartment.



3 Insert the rechargeable battery so that the word "SONY" is facing the same direction as illustrated inside the lid, and close the lid.

4 Connect the AC power adaptor.
The indications "CHG" and ▭ light up. Charge for about 2 hours (for BP-DM10) or 3 hours (for BP-DM20).



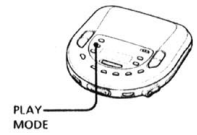
5 When fully charged, "CHG" and ▭ disappear. Disconnect the AC power adaptor.

When to charge the battery
When the battery becomes weak, ▭ indication appears in the display. If the battery is used up, "Lo batt" appears in the display. Charge the rechargeable battery. To keep the original battery capacity for a long time, recharge the battery when the battery is used up (discharged).

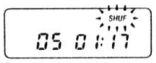
Notes
- Charging time varies depending on how the rechargeable battery is used.
- If the battery is new or has not been used for a long time, it may not be charged completely until you charge and discharge it several times.
- If the battery life becomes shorter by about half, replace it with Sony BP-DM10 or BP-DM20 rechargeable battery. Do not use any other rechargeable battery (R6 type rechargeable battery, etc.).

Playing tracks in random order (Shuffle Play)

You can play the tracks in a CD in random order.



During play, press PLAY MODE repeatedly until "SHUF" appears.
The tracks play in random order.



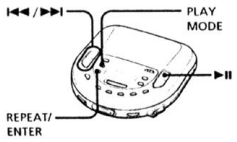
To cancel shuffle play, press PLAY MODE repeatedly until the play mode indication disappears from the display.

Note

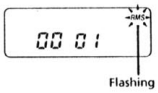
- During shuffle play, you cannot return to previous tracks by pressing I◄◄ .

Playing tracks in the order you want (RMS play)

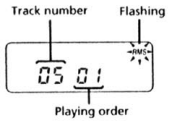
You can program up to 22 tracks to play in any order you choose.



1 During play, press PLAY MODE repeatedly until "RMS" flashes.



2 Press I◄◄ or ►►I to choose a track.
The track number and the playing order appear.



3 Press REPEAT/ENTER to program the track.

4 Repeat steps 2 and 3 to program the remaining tracks.

5 Press ►II .
"RMS" stops flashing and the tracks you have chosen play in the order you specified.

To cancel RMS play, press PLAY MODE until "RMS" disappears.

To check the program

During programming:
Press REPEAT/ENTER before step 5.
During RMS play:
Press PLAY MODE repeatedly until "RMS" flashes, then press REPEAT/ENTER.
Each time you press REPEAT/ENTER, the track number and the playing order appear in the order you specified.

Note

- If you program another track after the 22nd track, the first track programed is cleared and the new track is programed instead.

Using other functions

To enjoy more powerful bass sound

You can enjoy a powerful bass-boosted sound.

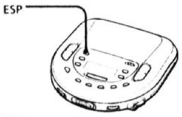
Set MEGA BASS to the desired position.

Note

- If the sound is distorted when emphasizing bass, turn down the volume.

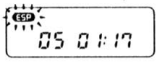
To prevent sound from skipping (ESP)

The ESP (Electronic Shock Protection) function prevents the sound from skipping by using a buffer memory that stores music data for about 10 seconds. Use this function when listening in a car or during a walk.



Press ESP.
The ESP indication appears.

To release the ESP function, press ESP again.

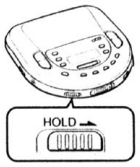


Notes

- Playing may stop when the Discman gets a strong shock even with the ESP function on.
- You may hear a noise or sound skip when:
  — listening to a dirty or scratched CD,
  — listening to an audio test CD or,
  — the Discman receives continuous shock.
- Sound may drop for a while if you press ESP during play.
- When you use an optical digital connecting cord, the ESP function will be disabled.

To lock the buttons

You can lock your Discman against any accidental operations.
You can still operate the unit with the earphones with remote control.

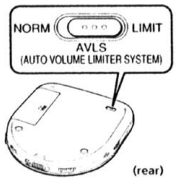


Slide HOLD in the direction of the arrow.
When you press any button, "*Hol d*" appears in the display and you cannot operate the unit.

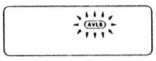
To unlock, slide HOLD back.

To protect your hearing (AVLS)

The AVLS (Automatic Volume Limiter System) function keeps down the maximum volume to protect your ears.



Set AVLS to LIMIT.
The AVLS indication appears.



Note

- If the sound is distorted when you listen to the bass-boosted sound with the AVLS function, turn down the volume.

To resume playing from the point you stopped the CD (Resume Play)

Normally, every time you stop and play, playing starts from the beginning of the CD. The resume play function, however, let you listen to from the point at which you last turned off the Discman.

Set RESUME to ON.

To cancel resume play, set RESUME to OFF.

Notes

- Even if RESUME is set to ON, playing starts from the beginning when you open the lid.
- The resume point may be inaccurate by about 30 seconds.

To turn off the beep

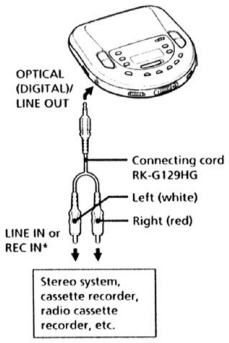
You can turn off the beep that sounds as you operate your Discman. (You cannot turn off the beep that sounds during the radio operation.)

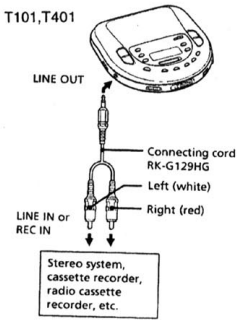
Disconnect the power source (AC power adaptor, rechargeable battery or alkaline batteries). While you press and hold down ■, connect the power source again. To make the beep sound again, disconnect the power source, and then connect it without pressing ■.

Connecting to other stereo equipment

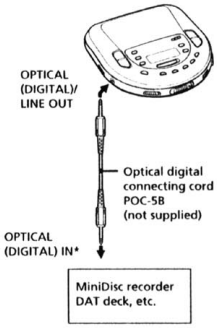
You can listen to the CD through other stereo equipment or record a CD on a cassette tape or a MiniDisc. Refer to the instruction manual of the other equipment for details. Before making connections, turn off each piece of equipment.

Using the connecting cord





Using the optical digital connecting cord



*If the OPTICAL (DIGITAL) IN jack is square-shaped, use the POC-5AB optical digital connecting cord instead.

Notes on connecting to other stereo equipment

- Before you play the CD, turn down the volume of the connected equipment so as not to damage the connected speakers.
- The beep sound is not output from the OPTICAL (DIGITAL)/LINE OUT jack.
- When you connect other equipment to the OPTICAL (DIGITAL)/LINE OUT jack, you cannot adjust the volume by this unit.
- When you record a CD on a cassette tape using a tape recorder that has the blank search function, release the ESP function. If the ESP function is on, the blank search function does not work.

Recording with optical digital connection

Record a CD on a MiniDisc, DAT, etc., according to the following procedure.

1 Press ►II on the Discman to start play.
2 Press ►II again to pause.
3 Press I◄◄ / ►►I to select the track you want to record.
4 Press ● (record) on the MiniDisc recorder, DAT recorder, etc.
5 Press ►II on the Discman to release pause.

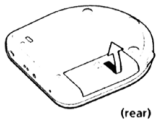
Notes

- Connect the optical digital connecting cord while the Discman is in stop mode. If you make connection just after stopping the Discman, optical signals may not be output.
- If you record without pausing the Discman, some CD may have problem with recording the first track number correctly.
- When you use digital equipment with your Discman, use the AC power adaptor. If you use a rechargeable battery or alkaline batteries, the optical digital signal will not be output from the Discman. (Unexpected phenomena may occur, for instance, you cannot record a CD on connected equipment.)
- MEGA BASS can be output from the PHONES/REMOTE jack, but not from the OPTICAL (DIGITAL)/LINE OUT jack.
- When you use an optical digital connecting cord, the ESP function will be disabled.

Continue to the reverse side ➔

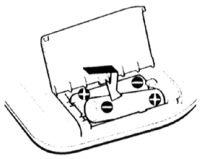
Using dry batteries

1 Open the lid of the battery compartment.



(rear)

2 Insert two LR6 (size AA) alkaline batteries by matching the ⊕ and ⊖ to the diagram inside the battery compartment and close the lid.



When to replace the dry batteries

When the batteries become weak, ▭ indication appears in the display. If the batteries are used up, "Lo batt" appears in the display. Replace all the batteries with new ones.

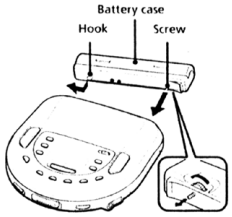
Notes

- Do not charge the dry batteries.
- Do not mix new batteries with old ones.
- Do not use different types of batteries together.
- Do not use manganese batteries for this unit.
- When the batteries are not to be used for a long time, remove them.

Using the battery case

You can use the unit for longer time by using the battery case, in addition to the rechargeable battery or batteries in the battery compartment of the unit. Batteries in the battery case and the rechargeable battery or batteries in the battery compartment are consumed together.

1 Hook the battery case onto the Discman and fasten the screw.



2 Open the lid of the battery case.

3 Insert two LR6 (size AA) alkaline batteries by matching the ⊕ and ⊖ to the diagram inside the battery case and close the lid.

Battery life (approx. hours)

When using	ESP function off	ESP function on	Radio on
BP-DM20 (charged for about 3 hours*)	8	7	13
Two alkaline batteries	15	9.5	25
BP-DM10 (charged for about 2 hours*)	3.5	3	6.5
BP-DM20 + Battery case (two alkaline batteries)	24	20	38
Two alkaline batteries + Battery case (two alkaline batteries)	33	22	60
BP-DM10 + Battery case (two alkaline batteries)	20	15	32

(When the unit is used on a flat and stable place)
*Charging time varies depending on how the rechargeable battery is used.

▶*Additional Information*

Precautions

On safety

- Should any solid objects or liquid fall into the unit, unplug it and have it checked by qualified personnel before operating it any further.
- Do not put any foreign objects in the DC IN 4.5 V (external power input) jack.

On power sources

- When you are not using the unit for a long time, disconnect all power sources from the unit.
- The nameplate indicating operating voltage, power consumption, etc. is located at the bottom of the AC power adaptor (for EA3 only.)

On the AC power adaptor

- Use only the supplied AC power adaptor. If your unit is not supplied with it, use AC-E45HG AC power adaptor. Do not use any other AC power adaptor.

Polarity of the plug

- To unplug the AC power adaptor from the wall outlet, grasp the adaptor itself, do not pull its cord.

On dry and rechargeable batteries

- Do not throw the batteries into fire.
- Do not carry the rechargeable battery with coins or other metallic objects. It can generate heat if the positive and negative terminals of the battery are accidentally contacted by a metallic object.

On the unit

- Keep the lens on the unit clean and do not touch it. If you do so, the lens may be damaged and the unit will not operate properly.
- Do not put any heavy object on top of the unit. The unit and the CD may be damaged.
- Do not leave the unit in a location near heat sources, or in a place subject to direct sunlight, excessive dust or sand, moisture, rain, mechanical shock, unleveled surface, or in a car with its windows closed.
- If the unit causes interference to the radio or television reception, turn off the unit or move it away from the radio or television.
- Do not wrap the unit in a cloth or blanket during use as it may cause malfunction or serious accidents.

On headphones/earphones

Road safety

Do not use headphones/earphones while driving, cycling, or operating any motorized vehicle. It may create a traffic hazard and is illegal in some areas. It can also be potentially dangerous to play your headsets at high volume while walking, especially at pedestrian crossings. You should exercise extreme caution or discontinue use in potentially hazardous situations.

Preventing hearing damage

Avoid using headphones/earphones at high volume. Hearing experts advise against continuous, loud and extended play. If you experience a ringing in your ears, reduce volume or discontinue use.

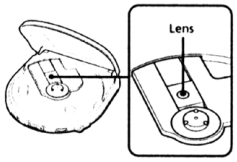
Caring for others

Keep the volume at a moderate level. This will allow you to hear outside sounds and to be considerate to the people around you.

Maintenance

To clean the lens

Clean the lens with a lens cleaning kit KK-DM1.



To clean the casing

Use a soft cloth slightly moistened in water or a mild detergent solution. Do not use alcohol, benzine or thinner.

Troubleshooting

Should any problem persist after you have made these checks, consult your nearest Sony dealer.

The CD does not play or "no dISC" appears in the display though a CD is placed in the unit.

- → The CD is dirty or defective.
- → Insert the CD with the label side up.
- → Moisture condensation has occurred. Leave the unit aside for several hours until the moisture evaporates.
- → The lens is dirty.
- → Close the lid of the unit and the battery compartment firmly.
- → Make sure the batteries are inserted correctly.
- → Connect the AC power adaptor to a wall outlet securely.

When you press ▶II, "00" appears in the display for a moment, and disappears. The CD does not play.

- → Rechargeable battery or dry batteries are used up. Charge the rechargeable battery or replace dry batteries with new ones.

No sound, or noise is heard.

- → Connect the plugs firmly.
- → Plugs are dirty. Clean the plugs with a dry soft cloth periodically.

"HI dc In" appears in the display.

- → Use only the supplied AC power adaptor or recommended AC power adaptor AC-E45HG (not supplied).

"Hold" appears in the display when you press a button.

- → The buttons are locked. Slide HOLD back.

"Lo batt" appears in the display when you press a button.

- → The rechargeable battery is used up completely. Connect the AC power adaptor and charge the battery.
- → The dry batteries are used up. Replace them with new ones.

The battery life is short.

- → Manganese batteries are used. Use alkaline batteries.
- → Replace the batteries with new ones.

The volume is limited to a certain level even if you attempt to turn it up.

- → AVLS selector is set to LIMIT. Set it to NORM.

During recording with optical digital connection, the truck number cannot be recorded correctly.

- → Record the truck number again using the MiniDisc recorder, DAT recorder, etc.
- → Record again according to the procedure shown in the section "Connecting to other stereo equipment."

When listening to the radio, the audio is weak or has poor quality.

- → Replace the batteries with new ones.
- → Move the unit away from the TV.

SECTION 2
SERVICE NOTE

NOTES ON HANDLING THE OPTICAL PICK-UP BLOCK OR BASE UNIT

The laser diode in the optical pick-up block may suffer electrostatic breakdown because of the potential difference generated by the charged electrostatic load, etc. on clothing and the human body.
During repair, pay attention to electrostatic breakdown and also use the procedure in the printed matter which is included in the repair parts.
The flexible board is easily damaged and should be handled with care.

NOTES ON LASER DIODE EMISSION CHECK

The laser beam on this model is concentrated so as to be focused on the disc reflective surface by the objective lens in the optical pick-up block. Therefore, when checking the laser diode emission, observe from more than 30 cm away from the objective lens.

Before Replacing the Optical Pick-Up Block

Please be sure to check thoroughly the parameters as par the "Optical Pick-Up Block Checking Procedures" (Part No.:9-960-027-11) issued separately before replacing the optical pick-up block.
Note and specifications required to check are given below.

- FOK output: IC501⑫ pin
  When checking FOK, remove the lead wire to disk motor.
- S curve P-to-P value: 1.0-2.8Vp-p IC501㉛pin
  When checking S curve P-to-P value, remove the lead wire to disc motor.
- RF signal P-to-P value: 0.8-1.2Vp-p
- Traverse signal P-to-P value: 1.2Vp-p
- The repairing grating holder is impossible.

Precautions for Checking Emission of Laser Diode

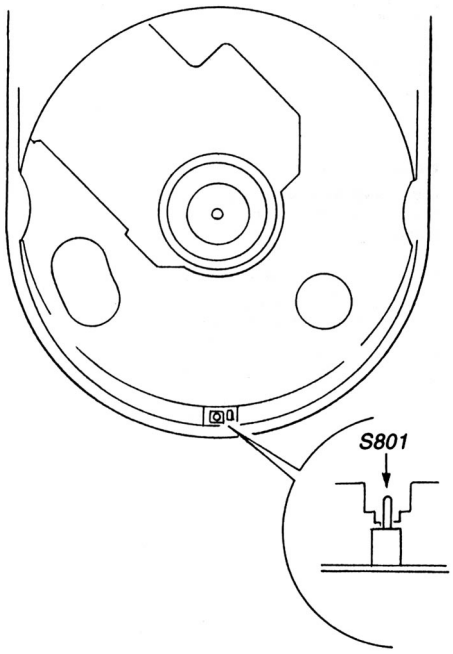
Laser light of the equipment is focused by the object lens in the optical pick-up so that the light focuses on the reflection surface of the disc. Therefore, be sure to keep your eyes more then 30 cm apart from the object lens when you check the emission of laser diode.

Laser Diode Checking Methods

During normal operation of the equipment, emission of the laser diode is prohibited unless the upper panel is closed while turning ON the S801 (push switch type).
The following two checking methods for the laser diode are operable.

- **Method (In the service mode or normal operation): Emission of the laser diode is visually checked.**

1. Open the upper lid.
2. Push the S801 as shown in Fig. 1.
3. Check the object lens for confirming normal emission of the laser diode. If not emitting, there is a trouble in the automatic power control circuit or the optical pick-up.
   During normal operation, the laser diode is turned ON about 2.5 seconds for focus searching.



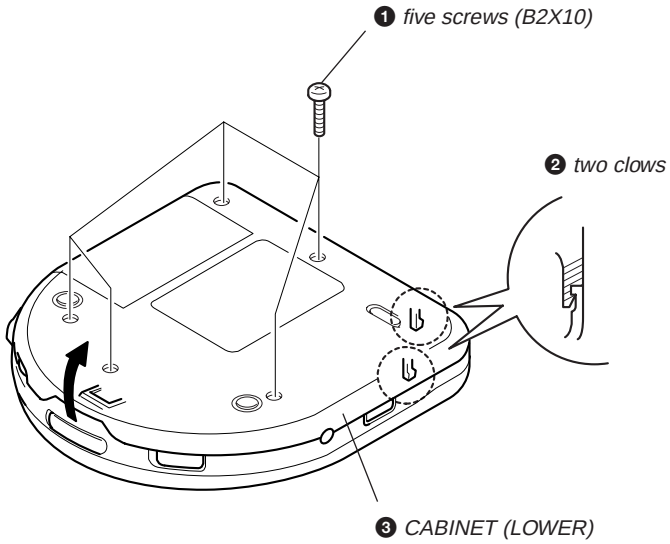
Fug. 1 Method to push the S801

SECTION 3
DISASSEMBLY

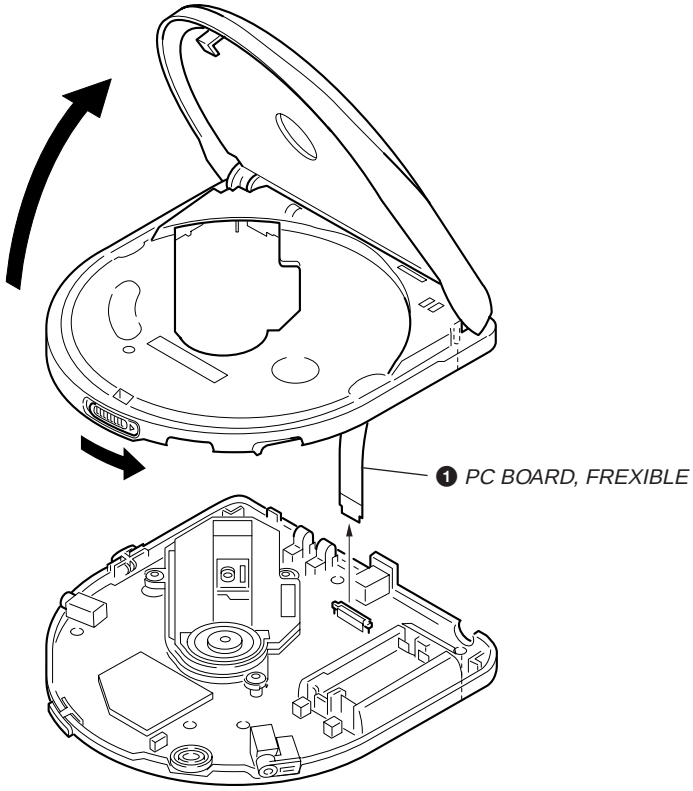
Note : Follow the disassembly procedure in the numerical order given.

SET → TUNER BOARD
→ CABINET (LOWER) → CABINET (UPPER) → CD BOARD

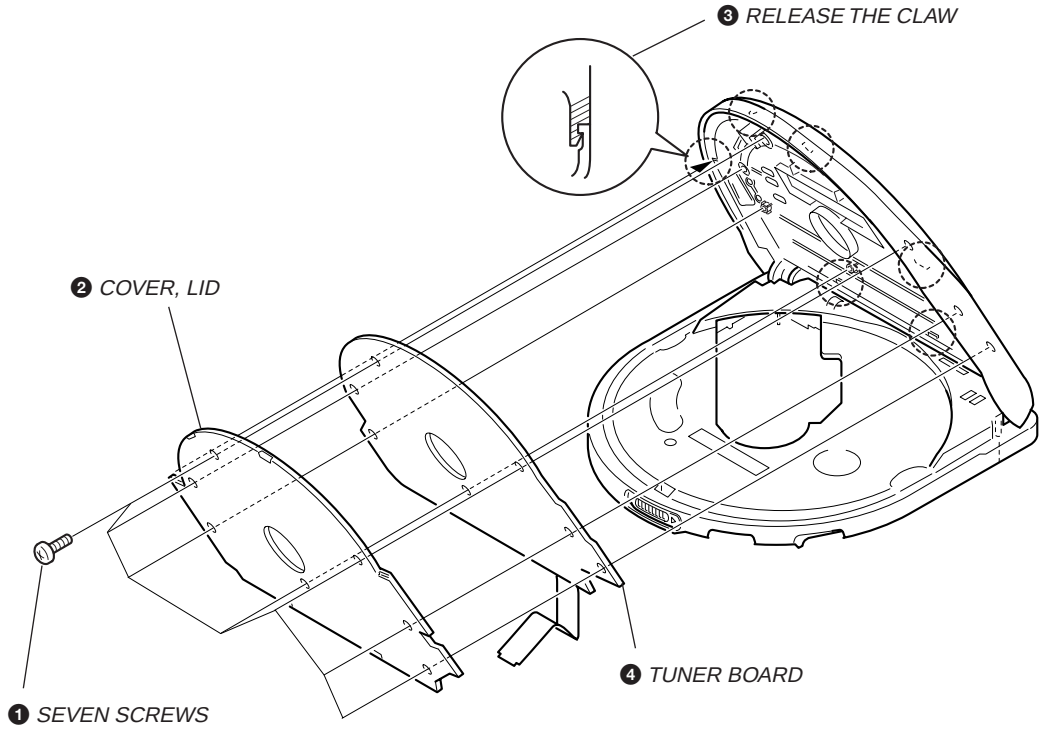
3-1. CABINET (LOWER)



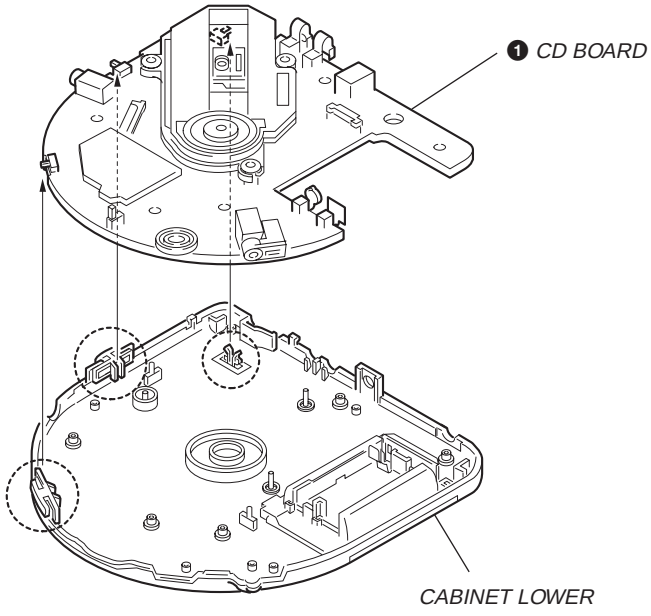
3-2. CABINET (UPPER)



3-3. TUNER BOARD



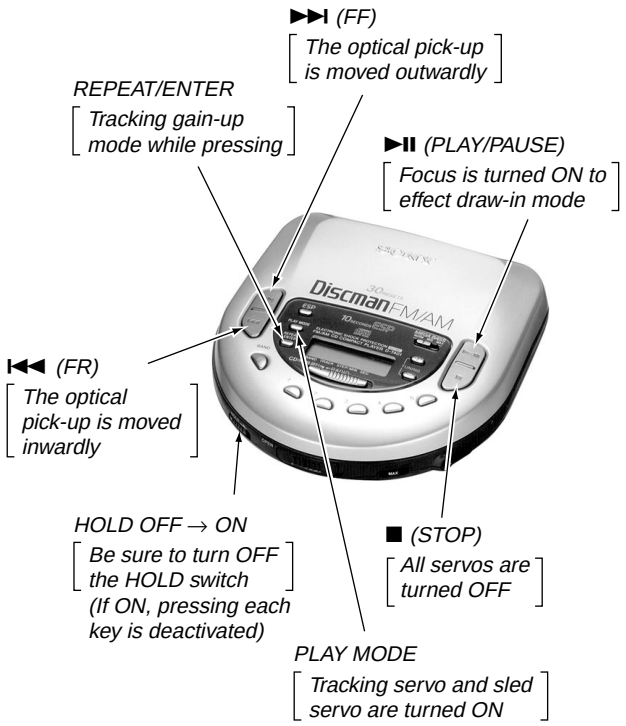
3-4. CD BOARD



SECTION 4
SERVICE MODE

Service Mode (Service program)

The equipment is provided with a service program built in the microcomputer, like conventional models.
Service program operation methods are described in the following.


▶▶I (FF)
[The optical pick-up is moved outwardly]
REPEAT/ENTER
[Tracking gain-up mode while pressing]
▶II (PLAY/PAUSE)
[Focus is turned ON to effect draw-in mode]
I◀◀ (FR)
[The optical pick-up is moved inwardly]
HOLD OFF → ON
[Be sure to turn OFF the HOLD switch (If ON, pressing each key is deactivated)]
■ (STOP)
[All servos are turned OFF]
PLAY MODE
[Tracking servo and sled servo are turned ON]

Description in [ ] indicate major operations in the service mode. For more informatrion, see Step 2.

Fig. 1 Layout of each key

• Step 1 (Service mode setting methods)

1. Turn OFF the HOLD switch with external power supply disconnected (power is not applied to the set).
2. Solder across the TEST terminals (TAP802) (pin ⑭, IC801 (TEST) is grounded).
3. Connect an external power supply.

   Thus, the set is switched to the service mode.

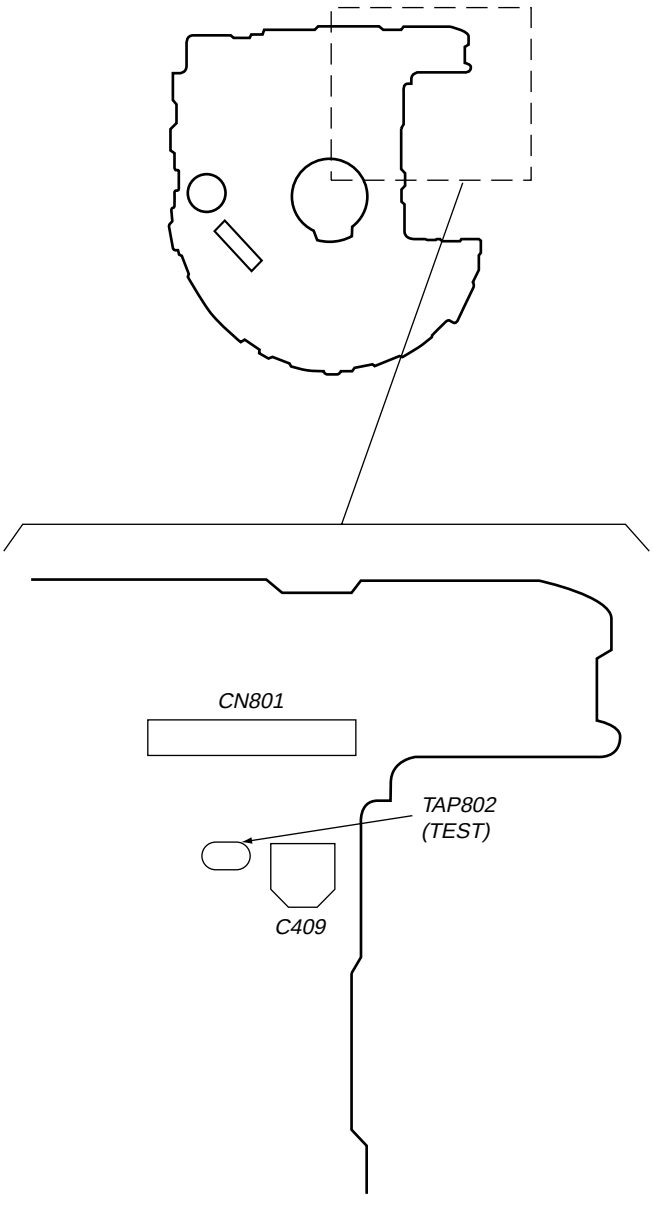
• Step 2 (Operation in the service mode)

1. Once the service mode is effected, the LCD display 5 indications each of which is repeatedly displayed.
   However, the following oprations can be activated even if LCD indication is effected.
2. By pressing the ▶▶I or I◀◀ key, the optical pick-up is movable inwardly or outwardly. However, if this is activated, tracking servo and sled servo are turned OFF, so it can be turned ON by pressing the PLAY MODE key if required.
3. By pressing the REPEAT/ENTER key, the tracking gain-up mode becomes active.
4. By pressing the ▶II key, focus is turned ON from focus searching while entering CLV-S (pull-in mode).
   Without disk, focus searching is repeated continuously.
5. By-pressing the PLAY MODE key, tracking servo, sled servo and CLV-A (servo in PLAY) are turned ON.
6. When 4. an 5. are performed, playing begins. No muting is ON in the service mode.
7. By pressing the ■ key, all servos (focus, tracking and sled) are turned OFF. However, the disc motor revolver for a while by inertia.

• Step 3 (Resetting of service mode)

1. Be sure to disconnect the external power supply and remove the solder bridge at the TEST terminals connected before in setting.
2. The set thus becomes available for normal operation.

—CD BOARD— (Component Side)



SECTION 5
ELECTRICAL ADJUSTMENTS

CD SECTION

Precautions for Adjustment

1. Before beginning adjustment, set the equipment to service mode. After the completion of adjustment, be sure to reset the service mode.
   For more information, see " Service Mode (service program) " on page 10.
2. Perform adjustments in the order given.
3. Use YEDS-18 disk (Part No.:3-702-101-01) unless otherwise indicated.
4. Power supply voltage requirement: DC2.5V in battery terminal
   HOLD switch : OFF
   VOLUME : Minimum
   ESP switch : OFF
   BASS BOOST switch : NORM
   AVLS switch : OFF
   RESUME switch : OFF

Before Beginning Adjustment

Set the equipment to service mode (See page 10) and check the following. If there is an error, repair the equipment.

• Checking of the sled motor

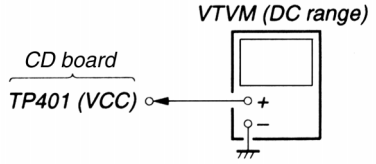
1. Open the upper panel.
2. Press the ▶▶I and I◀◀ keys and check that the optical pick-up can move smoothly without sluggishness or abnormal noise in innermost periphery → outermost periphery → innermost periphery
   ▶▶I :The optical pick-up moves outwardly.
   I◀◀ :The optical pick-up moves inwardly.

• Checking of focus searching

1. Open the upper panel.
2. Press the ▶▶I key. (Focus searching operation is activated continuously.)
3. Check the object lens of the optical pick-up for smooth up/down motion without sluggishness or abnormal noise.
4. Press the ■ key.
   Check that focus searching operation is deactivated. If not, again press the ■ key slightly longer.

VCC Adjustment

Adjustment Procedure:



1. Set the equipment to service mode stop state. (See page 10.)
2. Connect the VTVM to TP401 (VCC) of the CD board.
3. Adjust RV401 on the CD board so that the reading on VTVM goes 2.75±0.05V.
4. After the completion of adjustment, reset service mode. (See page 10.)

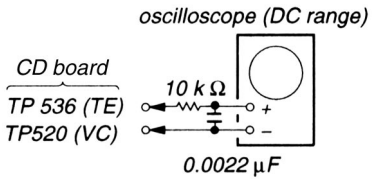
Adjustment Location: CD board (See page 14.)

Tracking Balance Adjustment

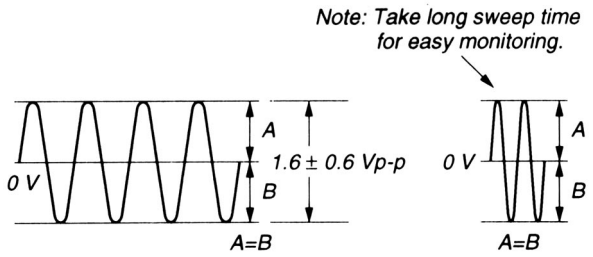
Condition:

• Hold the set in horizontal state.

Adjustment Procedure:



1. Connect the oscilloscope to TP536 (TE) of the CD board.
2. Connect TP562 to TP520 (VC) of the CD board.
3. Set the equipment to service mode stop state. (See page 10.)
4. Move the optical pick-up by pressing the ▶▶I and I◀◀ keys.
5. Put the disk (YEDS-18).
6. Press the ▶II key.
   [From focus searching, focus is turned ON while entering CLV drawing-in mode. Tracking and sled are turned OFF.]
7. Adjust RV501 so that the waveform on the oscilloscope becomes up/down symmetrical with an axis of 0V.



8. Stop removing of the disk motor by pressing the ■ key.
9. After adjustment, disconnect between TP562 and TP520 (VC) and release the service mode. (See page 10.)

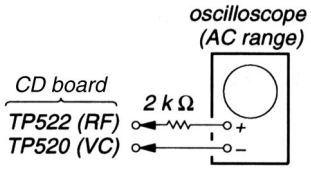
Adjustment Location: CD board (See page 14.)

Focus bias Check

Condition:

• Hold the set in horizontal state.

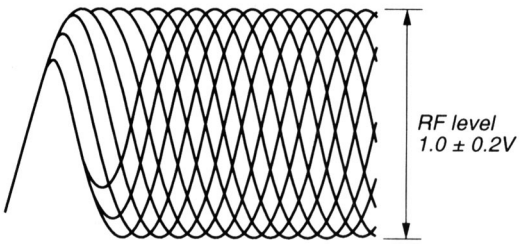
Check Procedure:



1. Set the equipment to service mode stop state. (See page 10.)
2. Connect the oscilloscope to the test point TP522 (RF) of the CD board.
3. Move the optical pick-up by pressing the ▶▶I and I◀◀ keys.
4. Put the disc (YEDS-18).
5. Press the ▶II key.
   [From focus searching, focus is turned ON while entering CLV drawing-in mode. Tracking and sled are turned OFF.]
6. Press the PLAY MODE key. (Both tracking and sled are turned ON.)
7. Check the oscilloscope waveform is as shown below.
   A good eye pattern means that the diamond shape (◇) in the center of the waveform can be clearly distinguished.

RF SIGNAL REFERENCE WAVEFORM (EYE PATTERN)

VOLT DIV : 200 mV (With the 10:1 probe in use)
TIME DIV : 500 ns



To watch the eye pattern, set the oscilloscope to AC range and increase the vertical sensitivity of the oscilloscope for easy watching.

8. Stop revolving of the disk motor by pressing the ■ key.
9. After the completion of adjustment, reset service mode. (See page 10.)

Check Location: CD board (See page 14.)

Focus/Tracking Gain Adjustment

A servo analayzer is necessary in order to perform this adjustment exactly.

> However, this gain has a margin, so even if it is slightly off, there is no problem. Therefore, do not perform this adjustment.

Focus/tracking gain determines the pick-up follow-up relative to mechanical noise and mechanical shock when the 2-axis device operates. However, as these reciprocate, the adjustment is at the point where both are satisfied.

- When gain is rased, the noise when 2-axis device operates increase.
- When gain is lowered, it is more susceptible to mechanical shock and skipping occurs more easily.

This adjustment has to be performed upon replacing any of the following parts.

- Optical pick-up
- RV503 (Focus gain VR)
- RV502 (Tracking gain VR)

> Normally, be sure not to move RV503 (focus gain VR) and RV502 (tracking gain VR).

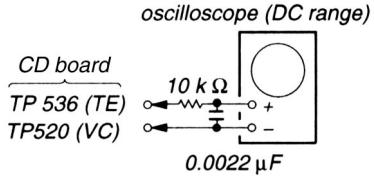
Adjustment method:

– Focus Gain Adjustment –

This adjustment is not performed.
If focus gain VR RV503 is turned, set to mechanical center.

– Tracking Gain Adjustment –

(perform at normal operation)



1. Place the optical pick-up level, horizontally. (If the optical pick-up is not level, the 2-axis device will be weighted and adjustment cannot be done.)
2. Connect the oscilloscope TP536 (TE) and TP520 (VC) on CD board.
3. Set the disk (YEDS-18) and press the ► (▶▶I) key.
4. Turn RV502 slightly clockwise (tracking gain drops) and obtain a waveform with a fundamental wave (waveform has large waves) as in Figure 1.
5. Turn RV502 slowly counterclockwise (tracking gain rises) until the fundamental wave disappears (no large waves) as in Figure 2.
6. Set RV502 to the position about 30° counterclockwise form the position obtained in step 5. If RV502 contact point is more than 90° counterclockwise from mechanical center, tracking gain is too high. In this case, readjust from step 4.
7. Press ► (▶▶I) or I◀◀ key and observe the 100 track jump waveform. Check that no traverse waveform appears for both ► (▶▶I) or I◀◀ key and observe the 100 track jump waveform. Check that no traverse waveform appears for both ► (▶▶I) or I◀◀ directions. (See Figures 3 and 4.) It is acceptable if the traverse waveform appears only now and then, but if it appears constantly, raise tracking gain slightly and check step 7 again.
8. Check that there is not abnormal amount of operation noise (white noise) from the 2-axis device. If there is, tracking gain is too high, readjust starting with step 4.

The wavwforms are those measured with the oscilloscope set as shown below.

- VOLT/DIV : 50mV
- TIME/DIV : 5ms

- Waveform when tracking gain is lowered.
  Fundamental wave appears (large waves).

Fig. 1

- Waveform when fundamental wave disappears (no large waves).

Fig. 2

- Waveform with no traverse waveform during 100 track jump.
  (Brake application is smooth because of adjustment.)

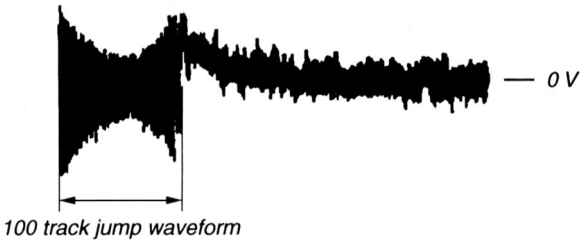


Fig. 3

- Waveform with traverse waveform during 100 track jump.
  (Brake application is poor because of adjustment.)

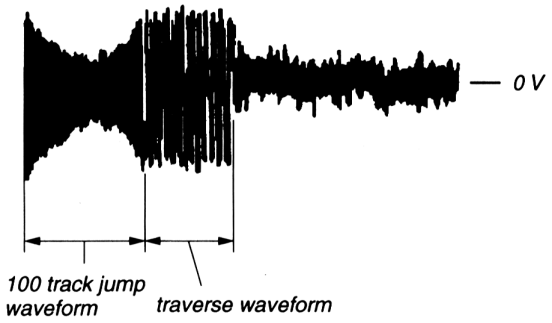
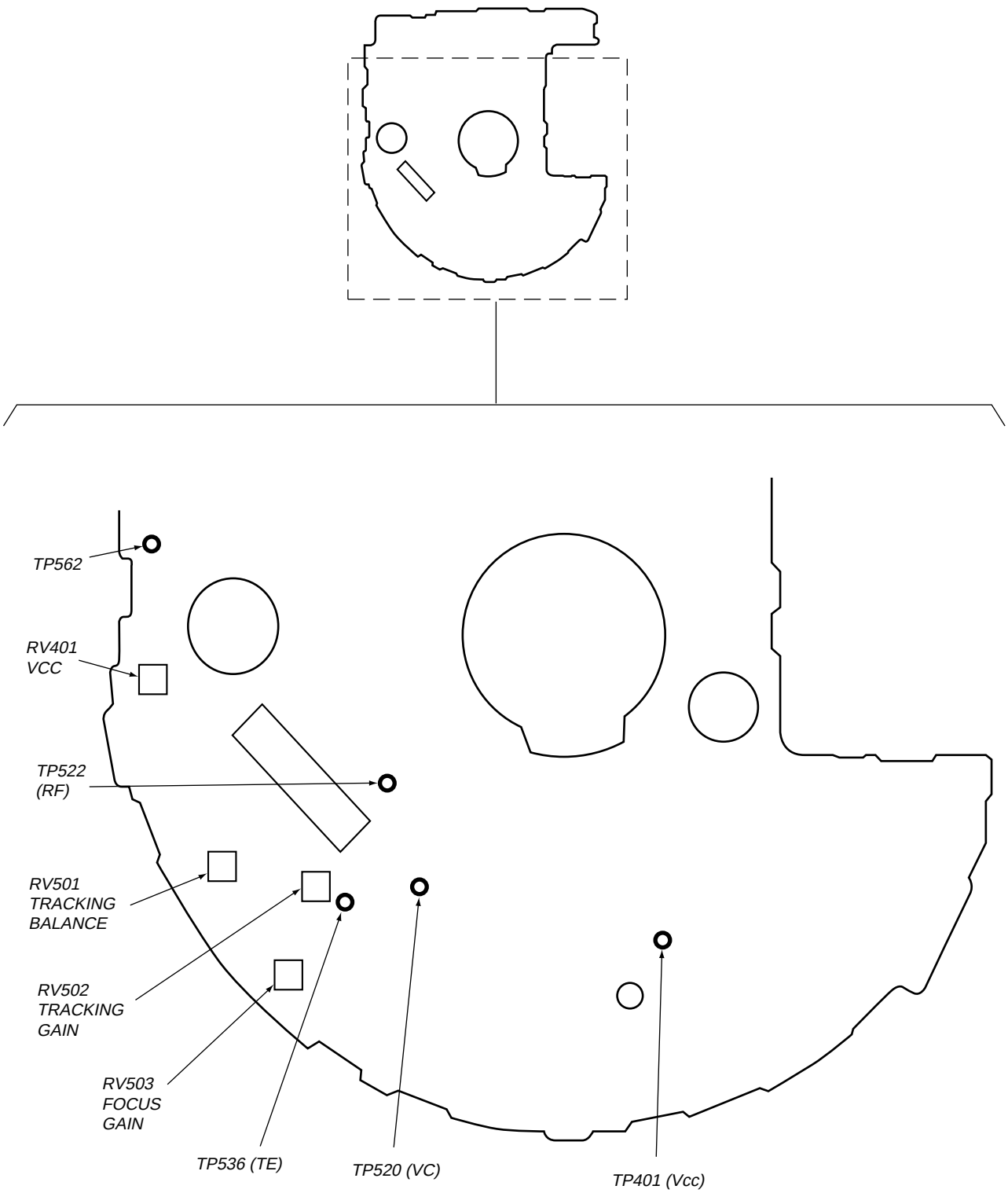


Fig. 4

Adjustment Part Location:

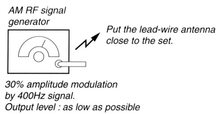
—CD BOARD— (Component Side)



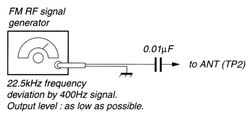
SECTION 6
DIAGRAMS

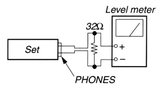
TUNER SECTION

[AM]
BAND switch : AM


AM RF signal generator
Put the lead-wire antenna close to the set.
30% amplitude modulation by 400Hz signal.
Output level : as low as possible

[FM]
BAND switch : FM





- Repeat the procedures in each adjustment several times, and the frequency coverage and tracking adjustment should be finally done by the trimmer capacitors.

( ) : U, CA model

AM TRACKING ADJUSTMENT	
Adjust for a maximum reading on level meter.	
L7	702kHz (700kHz)
CT3	1,404kHz (1,400kHz)

( ) : U, CA model

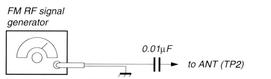
AM VOLTAGE ADJUSTMENT	
1.6V±0.1V	
T4	531kHz (530kHz)

FM TRACKING ADJUSTMENT	
Adjust for a maximum reading on level meter.	
L2	87.5MHz (76MHz)
CT2	108MHz

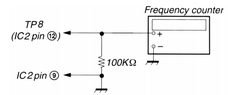
( ) : U, CA model

FM VOLTAGE ADJUSTMENT	
3.0V±0.1V (1.0V±0.1V)	
L3	87.5MHz (76MHz)

FM VCO Adjustment
Procedure :

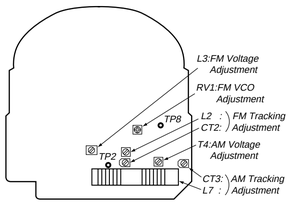


1. Connect the frequency counter to the positions shown below.
2. Turn the set to 108MHz.
3. Adjust RV1 for 19kHz±200Hz reading on the frequency counter.

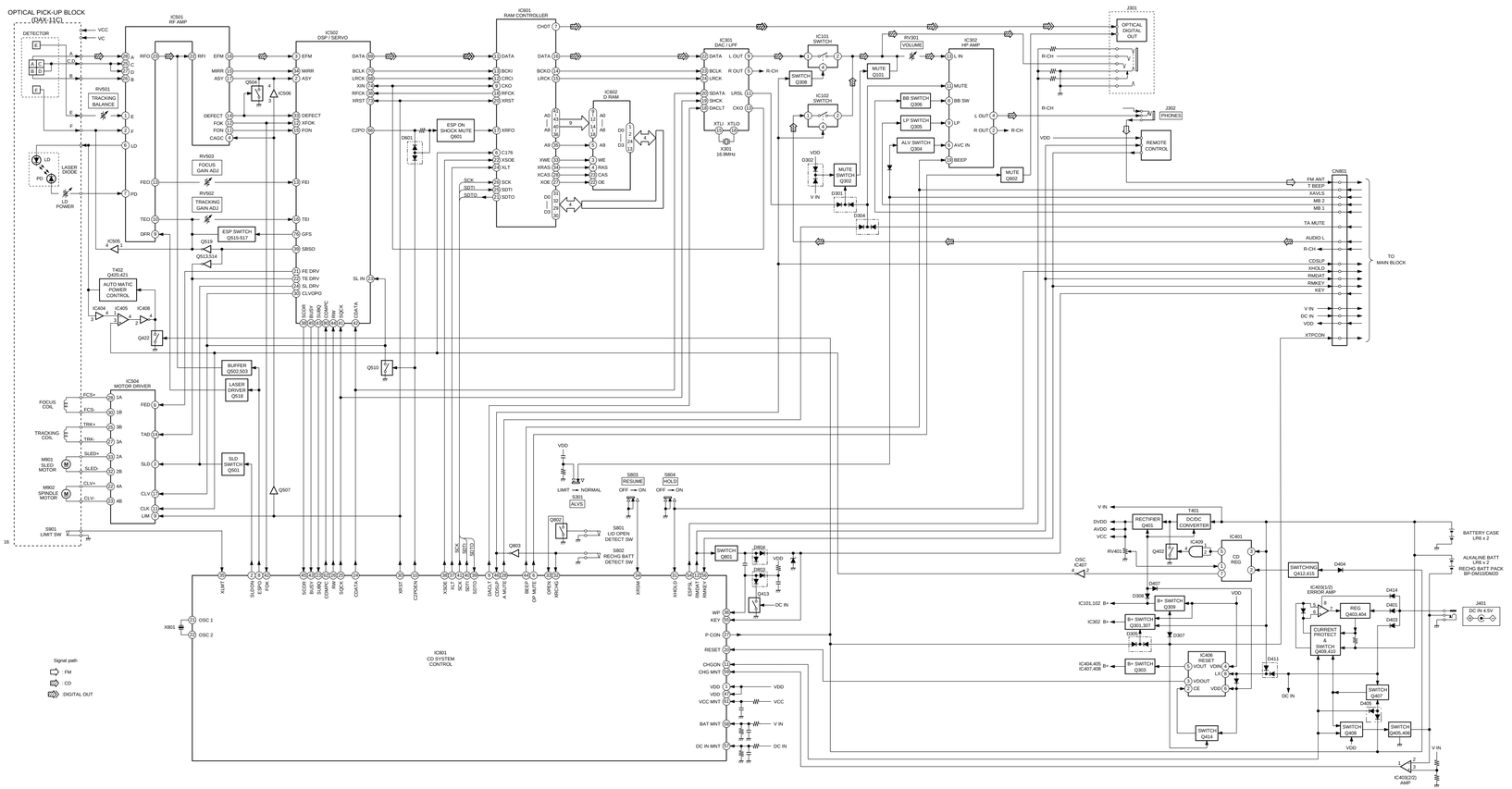


Adjustment Part Location:

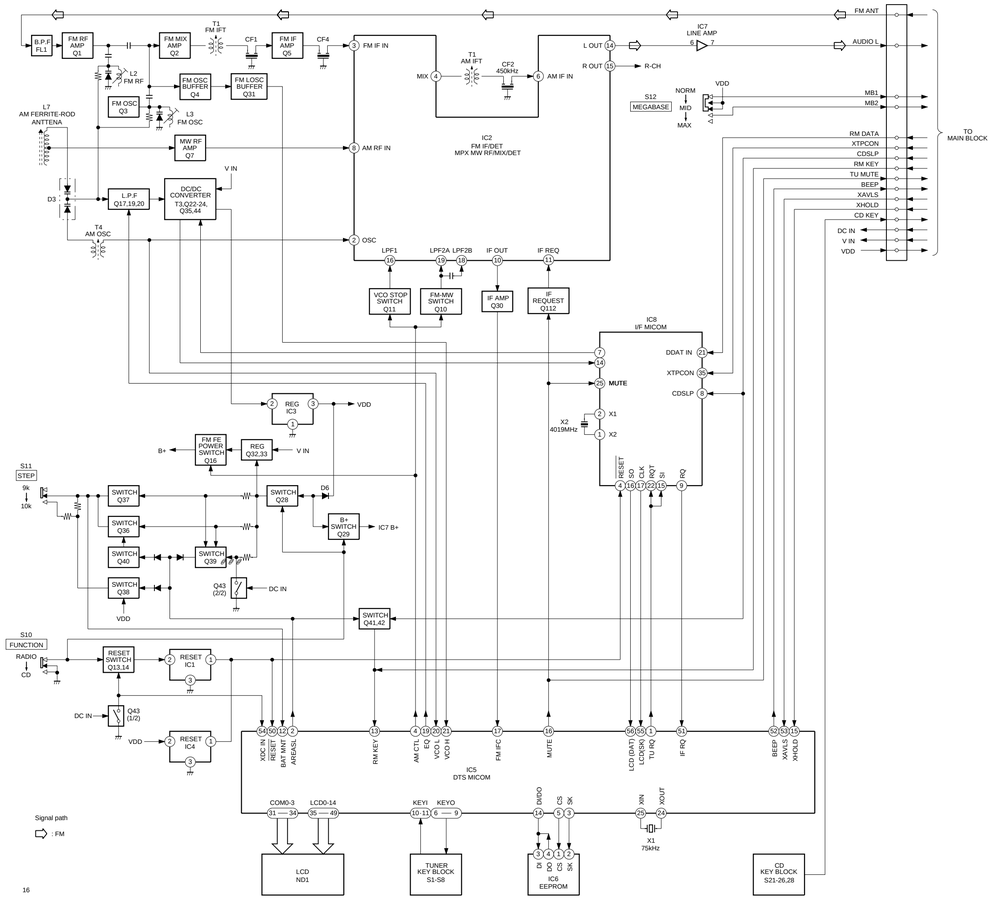
[TUNER BOARD] – SIDE A –



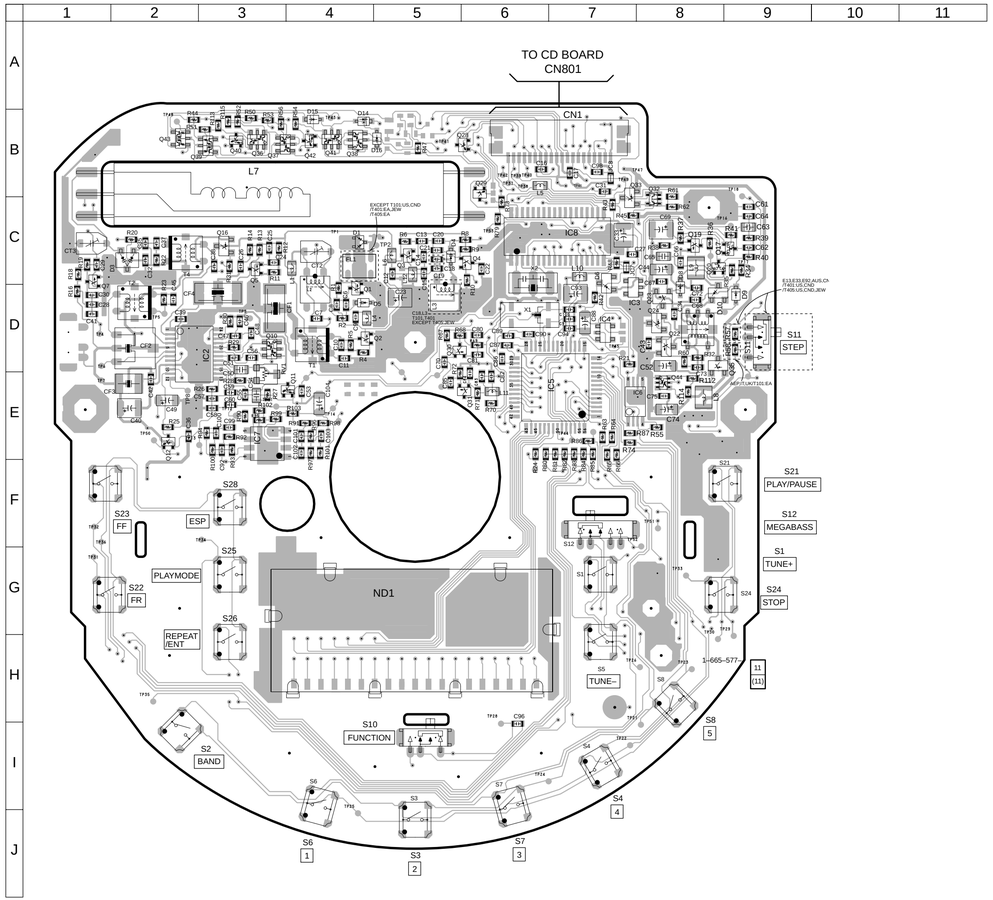
6-1. BLOCK DIAGRAM — CD SECTION —



6-2. BLOCK DIAGRAM — TUNER SECTION —



6-3. PRINTED WIRING BOARD — TUNER SECTION —



• **Semiconductor Location**

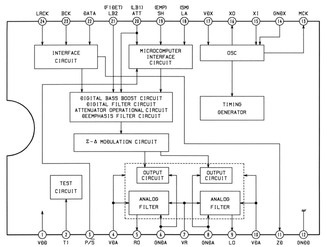
Ref. No.	Location
D1	C-4
D3	C-2
D4	C-5
D5	D-4
D6	C-7
D8	C-8
D9	D-9
D10	D-8
D14	B-4
D15	B-4
D16	B-4
IC2	D-2
IC3	C-7
IC4	D-7
IC5	E-6
IC6	E-7
IC7	E-3
IC8	C-7
Q1	C-4
Q2	D-4
Q3	C-5
Q4	C-5
Q5	C-3
Q7	C-1
Q10	D-3
Q11	E-3
Q12	E-2
Q16	C-3
Q17	C-8
Q19	C-8
Q20	C-8
Q22	D-8
Q23	D-8
Q24	D-8
Q28	B-5
Q29	B-6
Q30	D-5
Q31	E-6
Q32	B-8
Q33	B-7
Q35	D-8
Q36	B-3
Q37	B-3
Q38	B-4
Q39	B-2
Q40	B-3
Q41	B-4
Q42	B-4
Q43	B-2
Q44	E-8

Note:

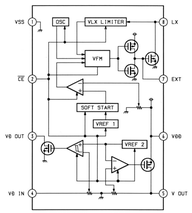
- ⟵ : Parts extracted from the component side.
- ▭ : Pattern on the side which is seen.
- Abbreviation
  E13 : 220-230V (No charger switch) area
  E33 : 100-240V (Without VS) area
  E92 : 120V area
  AUS : Australian
  CND : Canadian
  CN : Chinese
  EA : Saudi Arabia

6-8. IC BLOCK DIAGRAMS

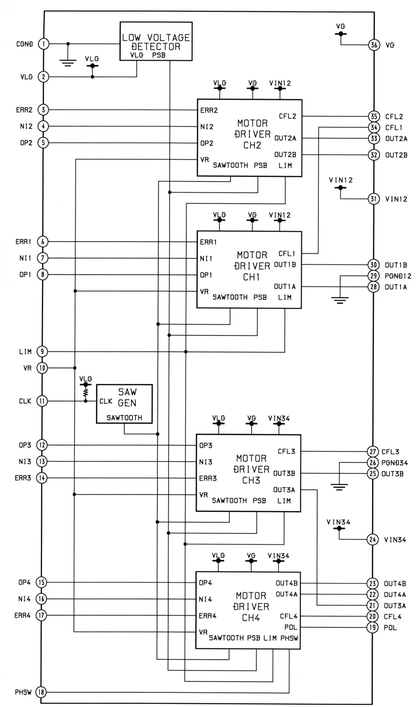
IC 301 TC9434FN



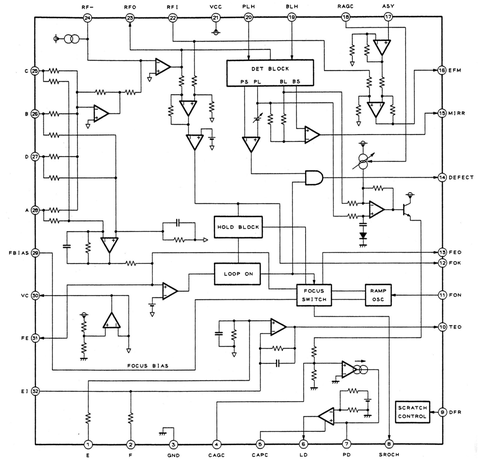
IC 406 RS5RJ32271



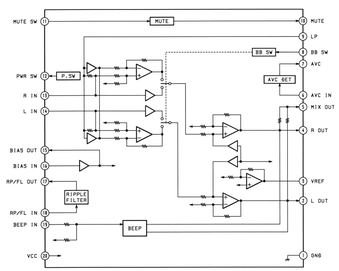
IC 504 MPC17A50



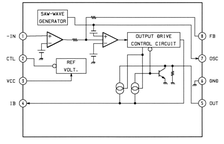
IC 501 BA6386K



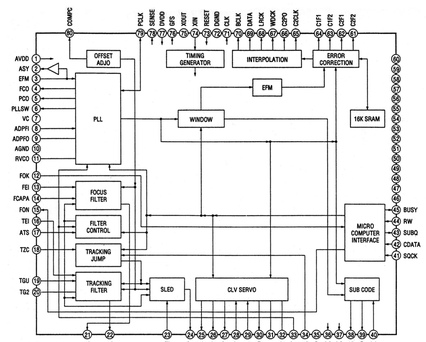
IC 302 BA3574BRS



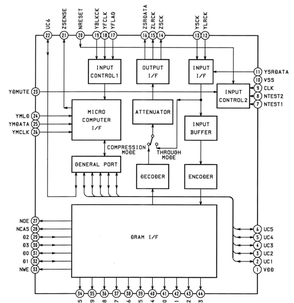
IC 401 MB3776APNF



IC 502 BU9321BKS



IC 601 SM5858CF



6-9. IC PIN FUNCTION

• TUNER BOARD IC8 μPD754302GS

Pin No.	Pin Name	I/O	Function
1	Vss	–	Ground potential.
2	X1	I	External crystal/ceramic oscillator for system clock oscillation is connected to this pin.
3	X2	I	In the case of external clock, connect it to X1 and connected its inverted phase signal to X2.
4	RESET	I	System reset input. (Low-level active).
5	P33 NOTE	I/O	Programmable 4-bit input/output port (PORT3).
6	P32 NOTE	I/O	Input/output can be specified in units of bit.
7	P31 NOTE	I/O	Connection of the internal pull-up resistors can be specified by software in units of 4-bits.
8	P30 NOTE	I/O	
9	P81	I/O	2-bit input/output port (PORT8).
10	P80	I/O	Connection of the internal pull-up resistors can be specified by software in units of 2-bits.
11	P23	I/O	4-bit input/output port (PORT2).
12	P22	I/O	Connection of the internal pull-up resistors can be specified by software in units of 4-bits.
13	P21	I/O	
14	P20	I/O	
15	P03	I	4-bit input port (PORT0).
16	P02	I/O	Connection of the internal pull-up resistors for P01 to P03 can be specified by software in units of 3-bits.
17	P01	I/O	
18	P00	I	
19	IC	–	Internally connected. Connect this pin to VDO directly.
20	VDD	–	Positive power supply.
21	P10	I	4-bit input port (PORT1).
22	P11	I	Connection of the internal pull-up resistors can be specified by software.
23	P12	I	P10/INT0 have the noise rejection function.
24	P13	I	
25	P73	I/O	4-bit input/output port (PORT7).
26	P72	I/O	Connection of the internal pull-up resistors can be specified by software in units of 4-bits.
27	P71	I/O	
28	P70	I/O	
29	P63	I/O	Programmable 4-bit input/output port (PORT6).
30	P62	I/O	Input/output can be specified in units of bit.
31	P61	I/O	Connection of the internal pull-up resistors can be specified by software in units of 4-bits.
32	P60	I/O	
33 to 36	P50 to P53	I/O	N-ch open drain 4-bit input/output port (PORT5).
			Pull-up resistor can be internally connected in units of bit (Mask option).
			13 V withstand voltage in the open drain connection.

Note

1. The white round mark (O) indicated Schmidt trigger input.
2. LED can be directly driven.
3. When the internal pull-up resistor is not used by mask option (when it is used as N-ch open drain input port), the low level input leak current increases when input instruction and bit operation instruction are performed.

• TUNER BOARD IC5 μPD17073

Pin No.	Pin Name	I/O	Function
1	P1C0/S00	O	1-bit general purpose output port. Serial data output.
2	P0A0	O	4-bit general purpose output port.
3	P0A1	O	
4	P0A2	O	
5	P0A3	O	
6	P1B0	O	4-bit general purpose output port.
7	P1B1	O	
8	P1B2	O	
9	P1B3	O	
10	P1A0	I	4-bit general purpose input port Analog input pins for the A/D converter.
11	P1A1	I	
12	P1A2/AD0	I	
13	P1A3/AD1	I	
14	P0C0	I/O	2-bit general purpose input/output port.
15	P0C1	I/O	2-bit general purpose input/output port.
16	P0D2	I/O	2-bit general purpose input/output ports and for the frequency counter.
17	P0D3	I/O	2-bit general purpose input/output ports and for the frequency counter.
18	GND	–	Ground
19	EO	O	Output from the charge pump of the PLL frequency synthesizer.
20	VCOL	I	MF and HF input.
21	VCOH	I	VHF input.
22	VREGO	–	Regulator output pin for PLL.
23	VDD	–	Common power supply pin (1.8 V to 3.6 V).
24	XO	–	External crystal oscillator for system clock oscillation is connected to this pin (75 kHz.)
25	XI	I	External crystal oscillator for system clock oscillation is connected to this pin (75 kHz.)
26	VREG1	–	Regulator output pin for oscillator.
27	VLCD0	–	Power supply pins for LCD drive.
28	CAP0	–	
29	CAP1	–	
30	VLCD1	–	
31	COM0	O	Common signal of the LCD controller/driver.
32	COM1	O	
33	COM2	O	
34	COM3	O	
35	LCD0	O	These pins are the LCD segment output.
36	LCD1	O	
37	LCD2	O	
38	LCD3	O	
39	LCD4	O	
40	LCD5	O	
41	LCD6	O	
42	LCD7	O	
43	LCD8	O	
44	LCD9	O	
45	LCD10	O	
46	LCD11	O	
47	LCD12	O	
48	LCD13	O	
49	LCD14	O	
50	CE	I	Device selection and reset signal input.
51	INT	I	External interrupt signal input.
52	BEEP	O	Beep output pin.
53	P0B0	I/O	Commonly used pins for 4-bit general purpose input/output ports and for serial interface input.
54	POB1	I/O	
55	P0B2/SCK	I/O	
56	P0B3/SI/SO1	I/O	

• CD BOARD IC801 MC68HC05L24SC440425CFU (SYSTEM CONTROL)

Pin No.	Pin Name	I/O	Function
1	VDD	–	Power supply terminal
2	SLDON	O	SLED servo mute signal output terminal “H”:SLED servo mute
3	XBRK	O	Outputs tracking brake signal “L”:Brake
4	CLVMUTE	O	Not used
5	OPTLT	O	Data latch output (for optical digital IC)
6	OPMUTE	O	Optical mute signal output terminal “H”:Mute
7	LIGHT	O	Back light control output terminal “H”:On
8	ESPO	O	ESP switch control terminal
9	DACLT	O	CPU serial data input latch signal output
10	C2POEN	O	C2PO signal control output terminal “L”:Stop “H”:Searching
11	CHGON	I	Charging on output terminal
12	RMDAT	O	Serial data output terminal to LCD remote controller
13	VLCD3	O	} LCD bias power supply terminal
14	VLCD2	O	
15	VLCD1	O	
16	VSS	–	Ground terminal
17	VPP	–	Power supply terminal
18	XOSC1	–	Not used
19	XOSC2	O	Headphone amp standby control signal output terminal
20	RESET	I	System reset input terminal
21	OSC1	I	X801 (4.19MHz) clock oscillator input terminal
22	OSC2	O	X801 (4.19MHz) clock oscillator input terminal
23	SUBQ	I	SUB-Q signal input terminal (DSP)
24	CDATA	O	Serial data output terminal (DSP)
25	SQCK	O	Clock output original to enter SUB-Q signal (DSP)
26	RW	O	Real/Write switching signal output terminal “L”:Read “H”:Write (DSP)
27	PCON	O	Power control output terminal “L”:Power ON “H”:Power OFF
28	AMUTE	O	Analog mute control output terminal “H”:Mute
29	XAVLS	I	AVLS switch input terminal “L”:ON
30	XRST	O	System reset output terminal System is reset at “L”
31	XHOLD	O	HOLD switch input terminal “L”:ON
32	XRCHG	I	Rechargeble battery detection terminal “L”:Rechargeble battery in
33	OPEN	I	Door switch input terminal The stop status is reset with the falling edge of input signal “L”:Open
34	XRSM	I	RESUME switch input terminal “L”:ON
35	XLMT	I	Input terminal of MD inside track sensor (S901) “L”:Inside track
36	WP	I	Input terminal to reset the system stop status The stop status is reset with the falling edge of input signal
37	XLT	O	Serial data output latch signal (ESP)
38	XSOE	O	Serial data output enable signal (ESP)
39	SDT0	I	Serial data input from IC601 (ESP)
40	SDT1	O	Serial data output from IC601 (ESP)

Pin No.	Pin Name	I/O	Description
41	SCK	O	Serial clock signal output terminal (ESP)
42	FOK	I	FOK signal input terminal “H”:OK “L”:NG (DSP)
43	BUSY	I	BUSY signal input terminal “L”:Track jumping “H”:Servo loop on (DSP)
44	BEEP	O	Beep sound Puluse output terminal
45	SCOR	I	Sub code sync S0 + S1 input terminal
46	PCW1	–	Sircs input/ATT diaplay select
47	VDD	–	Power supply terminal
48	COM3	O	LCD common signal output terminal
49	COM2	O	
50	COM1	O	
51	COM0	O	
52	VREFH	–	A/D converter reference voltage (+)
53	VREFL	–	A/D converter reference voltage (–)
54	ESPSL/TEST	I	Input service mode setting signal “H”:Normal “L”:Service mode
55	KEY	I	A/D input terminal for switch unit
56	RMKEY	I	A/D input terminal for headphone remote control key
57	DCINMNT	I	A/D input terminal for DC IN voltage detection Also used for DC IN detection
58	BATMNT	I	Rechargeable battery/dry cell detection terminal
59	CHGMNT	I	A/D input terminal for charging voltage monitor
60	VSS	–	Ground terminal
61	VCCMNT	I	A/D input terminal for main DC-DC convertor voltage monitor
62	DSP OFFSET	I	Voltage monitor for DSP offset voltage adjustment
63	SEG0	O	LCD segment signal output terminal
64	SEG1	O	
65	SEG2	O	
66	SEG3	O	
67	SEG4	O	
68	SEG5	O	
69	SEG6	O	
70	SEG7	O	
71	SEG8	O	
72	SEG9	O	
73	SEG10	O	
74	SEG11	O	
75	SEG12	O	
76	SEG13	O	
77	SEG14	O	
78	SEG15	O	Not used
79	SEG16	O	Not used
80	SLDSL	I	Selection of SLED intermittent feed cycle “L”:20ms ON, 280ms OFF “H”:20ms ON, 100ms OFF

SECTION 7
EXPLODED VIEWS

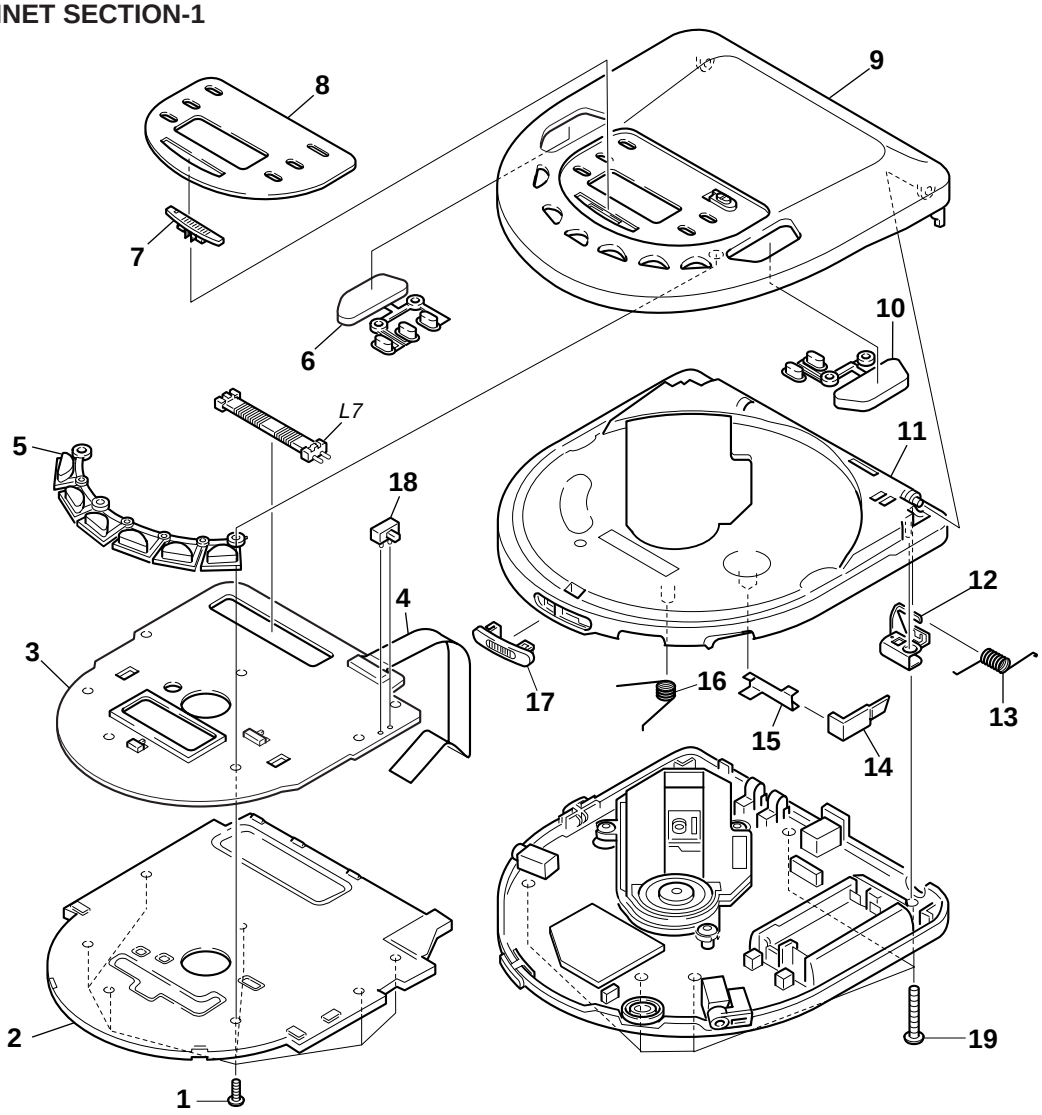
Note:
- -XX, -X mean standardized parts, so they may have some differences from the original one.
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- The mechanical parts with no reference number in the exploded views are not supplied.
- Hardware (# mark) list and accessories and packing materials are given in the last of this parts list.
- Abbreviation

  E13 : 220-230V (No charger switch) area
  E33 : 100-240V (Without VS) area
  E92 : 120V area
  AUS : Australian CND : Canadian
  CN : Chinese EA : Saudi Arabia

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

Les composants identifiés par une marque ⚠ sont critiques pour la sécurité.
Ne les remplacer que par une pièce portant le numéro spécifié.

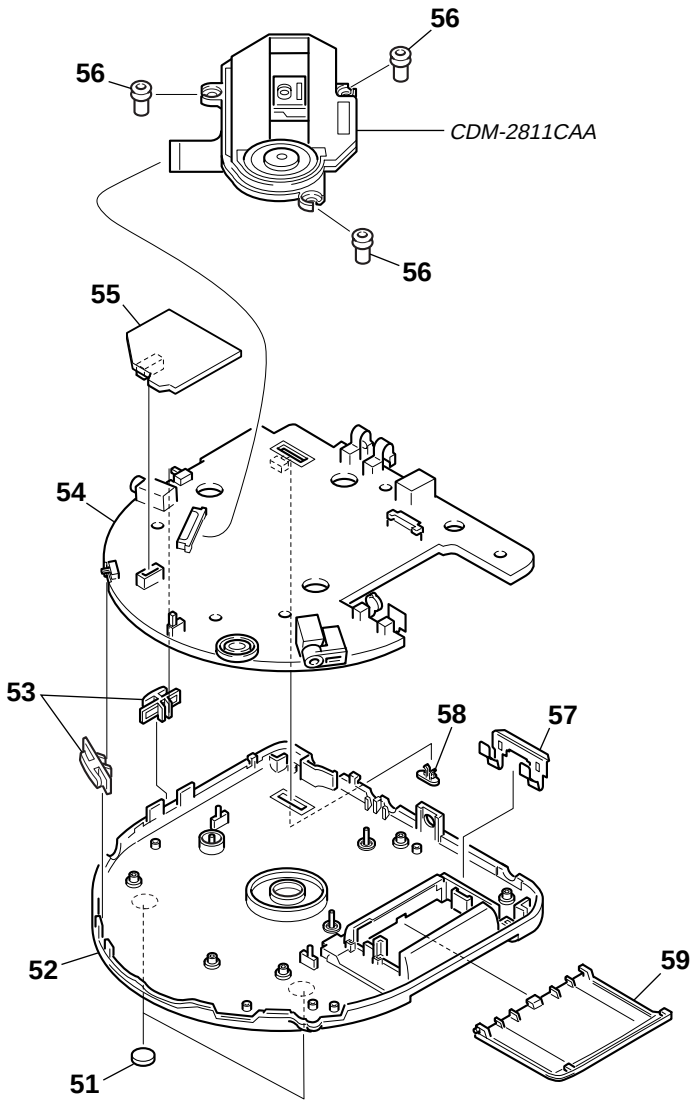
7-1. CABINET SECTION-1



Ref. No.	Part No.	Description	Remarks
1	4-991-484-01	SCREW, SPECIAL HEAD	
2	4-989-979-01	COVER, LID	
3	A-3293-384-A	TUNER BOARD, COMPLETE (T405:JEW)	
3	A-3293-385-A	TUNER BOARD, COMPLETE (US, CND, E13, E33, E92, AUS, CN)	
3	A-3293-386-A	TUNER BOARD, COMPLETE (AEP, IT, UK, EA)	
4	1-665-407-11	PC BOARD, FLEXIBLE	
5	4-989-976-01	BUTTON (R) (T401,T405)	
5	4-989-976-11	BUTTON (R) (T101)	
6	4-989-975-01	BUTTON (FF) (T401,T405)	
6	4-989-975-11	BUTTON (FF) (T101)	
7	4-989-977-01	KNOB (CR) (T401,T405)	
7	4-989-977-11	KNOB (CR) (T101)	
8	X-4949-010-1	WINDOW (LCD) ASSY (T405)	
8	X-4949-012-1	WINDOW (LCD) ASSY (T401)	
8	X-4949-013-1	WINDOW (LCD) ASSY (T101)	

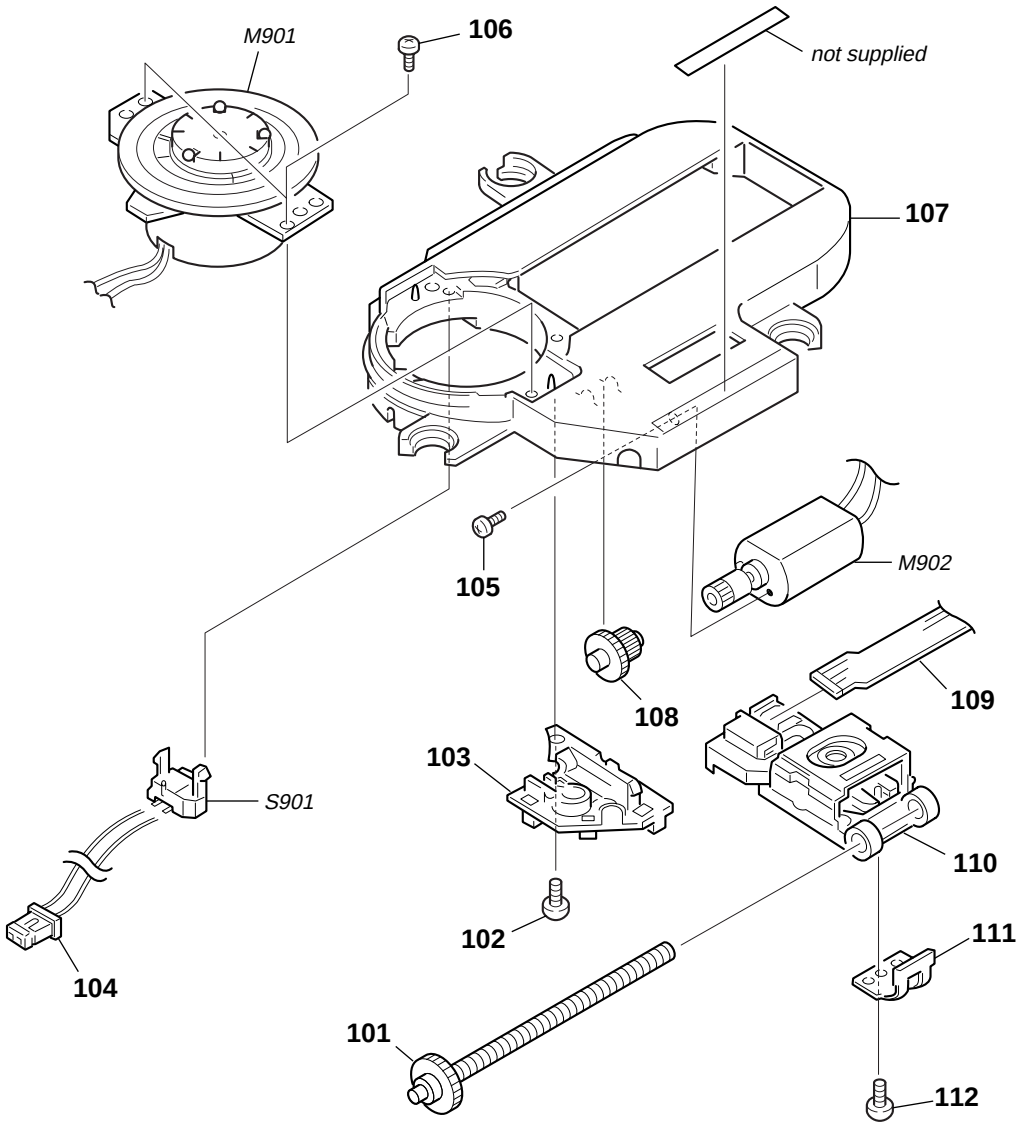
Ref. No.	Part No.	Description	Remarks
9	A-3311-558-A	LID SUB ASSY, UPPER (T405)	
9	A-3311-564-A	LID SUB ASSY, UPPER (T101)	
9	A-3311-573-A	LID SUB ASSY, UPPER (T401)	
10	4-989-974-01	BUTTON (PLAY) (T401, T405)	
10	4-989-974-11	BUTTON (PLAY) (T101)	
11	4-984-737-01	CABINET (UPPER) (T405)	
11	4-984-737-11	CABINET (UPPER) (T101,T401)	
12	4-984-848-01	BRACKET (SPRING)	
13	4-989-980-01	SPRING, TORSION	
14	4-965-547-01	SEPARATOR	
15	4-965-548-01	SPRING (D)	
16	4-984-847-01	SPRING, TORSION	
17	4-984-748-01	KNOB (OPEN)	
18	1-571-099-21	SWITCH (1KEY) (EXCEPT EA)	
19	3-336-395-01	SCREW (B2X10) (G), TAPPING	
L7	1-416-164-11	COIL, FERRITE ROD ANTENNA	

7-2. CABINET SECTION-2



Ref. No.	Part No.	Description	Remarks
51	4-966-278-01	FOOT, RUBBER	
52	4-984-749-01	CABINET (LOWER)	
53	4-984-747-01	KNOB (H-R)	
54	A-3306-391-A	CD (L.OPT) BOARD, COMPLETE (T405)	
54	A-3306-399-A	CD (L) BOARD, COMPLETE (T101)	
54	A-3306-402-A	CD (L.ESP) BOARD, COMPLETE (T401)	
55	A-3306-394-A	ESP (A.OPT)BOARD,COMPLETE (T405)	
55	A-3306-405-A	ESP (A.ESP)BOARD,COMPLETE (T401)	
56	4-975-811-01	INSULATOR	
57	4-978-696-01	TERMINAL BOARD (RELAY),BATTERY	
58	4-984-751-01	KNOB (AVLS)	
59	4-984-750-01	LID, BATTERY CASE	

7-3. OPTICAL PICK-UP SECTION (CDM-2811CAA)



Ref. No.	Part No.	Description	Remarks
101	A-3303-970-A	SCREW ASSY, FEED	
102	3-318-203-11	SCREW (B1.7X6), TAPPING	
103	4-972-163-04	SPRING, SLED	
104	1-690-530-21	LEAD (WITH CONNECTOR)	
105	7-627-850-17	SCREW,PRECISION +P 1.4X2.5	
106	3-719-401-11	SCREW (B1.7), TAPPING	
* 107	4-984-320-01	CHASSIS	
108	4-974-003-01	GEAR (B)	
109	1-660-965-11	PC BOARD, SLIDE FLEXIBLE	
⚠110	X-4947-828-1	OPTICAL PICK-UP (DAX-01C)	
111	4-972-165-01	RACK	
112	4-973-631-01	SCREW	
M901	A-3304-989-A	MOTOR ASSY, TURN TABLE	
M902	A-3303-403-A	MOTOR ASSY, SLED	

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.	Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

CD

SECTION 8
ELECTRICAL PARTS LIST

Note:

When indicating parts by reference number, please include the board name.

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.

Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.
- -XX, -X mean standardized parts, so they may have some difference from the original one.
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- CAPACITORS:
  uF: µF
- RESISTORS
  All resistors are in ohms.
  METAL: metal-film resistor
  METAL OXIDE: Metal Oxide-film resistor
  F: nonflammable
- COILS
  uH: µH
- SEMICONDUCTORS
  In each case, u: µ, for example:
  uA...: µA... , uPA... , µPA... , uPB... , µPB... , uPC... , µPC... , uPD..., µPD...

Ref. No.	Part No.	Description			Remarks
	A-3306-399-A	CD BOARD, COMPLETE (T101)			
		**********			
	A-3306-402-A	CD BOARD, COMPLETE (T401)			
		**********			
	A-3306-391-A	CD BOARD, COMPLETE (T405)			
		**********			
	4-978-695-01	PLATE, TERMINAL, BATTERY			
	4-984-850-01	TERMINAL BOARD (BATTERY CASE)			
		< CAPACITOR >			
C101	1-135-181-21	TANTALUM CHIP	4.7uF	20%	6.3V
C103	1-164-346-11	CERAMIC CHIP	1uF		16V
C104	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C105	1-164-489-11	CERAMIC CHIP	0.22uF	10%	16V
C106	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C107	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C201	1-135-181-21	TANTALUM CHIP	4.7uF	20%	6.3V
C203	1-164-346-11	CERAMIC CHIP	1uF		16V
C204	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C205	1-164-489-11	CERAMIC CHIP	0.22uF	10%	16V
C206	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C207	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C301	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C302	1-163-038-91	CERAMIC CHIP	0.1uF		25V
C303	1-163-038-91	CERAMIC CHIP	0.1uF		25V
C304	1-126-246-11	ELECT CHIP	220uF	20%	4V
C305	1-135-201-11	TANTALUM CHIP	10uF	20%	4V
C306	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C307	1-162-919-11	CERAMIC CHIP	22PF	5%	50V
C308	1-162-919-11	CERAMIC CHIP	22PF	5%	50V
C309	1-135-181-21	TANTALUM CHIP	4.7uF	20%	6.3V
C310	1-164-346-11	CERAMIC CHIP	1uF		16V
C311	1-135-201-11	TANTALUM CHIP	10uF	20%	4V
C312	1-164-346-11	CERAMIC CHIP	1uF		16V
C313	1-164-506-11	CERAMIC CHIP	4.7uF		16V
C314	1-164-346-11	CERAMIC CHIP	1uF		16V
C315	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C316	1-164-346-11	CERAMIC CHIP	1uF		16V
C317	1-115-565-11	CERAMIC CHIP	2.2uF	10%	10V
C318	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C319	1-135-181-21	TANTALUM CHIP	4.7uF	20%	6.3V
C320	1-107-686-11	TANTAL. CHIP	4.7uF	20%	16V
C321	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C323	1-163-038-91	CERAMIC CHIP	0.1uF		25V
C325	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C328	1-115-156-11	CERAMIC CHIP	1uF		10V
C330	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C333	1-164-315-11	CERAMIC CHIP	470PF	5%	50V
C334	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C335	1-109-982-11	CERAMIC CHIP	1uF	10%	10V

Ref. No.	Part No.	Description			Remarks
C399	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C401	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C402	1-126-607-11	ELECT CHIP	47uF	20%	4V
C403	1-113-682-11	TANTAL. CHIP	33uF	20%	10V
C404	1-164-816-11	CERAMIC CHIP	220PF	2%	50V
C405	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C406	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C407	1-135-181-21	TANTALUM CHIP	4.7uF	20%	6.3V
C408	1-164-346-11	CERAMIC CHIP	1uF		16V
C409	1-126-395-11	ELECT	22uF	20%	16V
C410	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C411	1-126-395-11	ELECT	22uF	20%	16V
C412	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C413	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C414	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C415	1-165-176-11	CERAMIC CHIP	0.047uF	10%	16V
C416	1-104-913-11	TANTAL. CHIP	10uF	20%	16V
C417	1-110-569-11	TANTAL. CHIP	47uF	20%	6.3V
C418	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C419	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C420	1-164-346-11	CERAMIC CHIP	1uF		16V
C421	1-164-227-11	CERAMIC CHIP	0.022uF	10%	25V
C422	1-110-569-11	TANTAL. CHIP	47uF	20%	6.3V
C423	1-109-982-11	CERAMIC CHIP	1uF	10%	10V
C424	1-113-682-11	TANTAL. CHIP	33uF	20%	10V
C425	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C426	1-162-923-11	CERAMIC CHIP	47PF	5%	50V
C427	1-127-510-00	ELECT(SOLID)	4.7uF	20%	25V
C428	1-126-205-11	ELECT CHIP	47uF	20%	6.3V
C430	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C431	1-164-346-11	CERAMIC CHIP	1uF		16V
C432	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C434	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C435	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C437	1-164-505-11	CERAMIC CHIP	2.2uF		16V
C439	1-104-914-11	TANTAL. CHIP	22uF	20%	16V
C440	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C441	1-164-346-11	CERAMIC CHIP	1uF		16V
C442	1-164-346-11	CERAMIC CHIP	1uF		16V
C443	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C444	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C445	1-164-346-11	CERAMIC CHIP	1uF		16V
C446	1-104-851-11	TANTAL. CHIP	10uF	20%	10V
C447	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C490	1-164-227-11	CERAMIC CHIP	0.022uF	10%	25V
C501	1-162-921-11	CERAMIC CHIP	33PF	5%	50V (T101)
C501	1-162-913-11	CERAMIC CHIP	8PF	0.5PF	50V (T401,T405)
C502	1-162-920-11	CERAMIC CHIP	27PF	5%	50V (T401,T405)

Ref. No.	Part No.	Description			Remarks
C503	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C504	1-164-315-11	CERAMIC CHIP	470PF	5%	50V
C505	1-162-967-11	CERAMIC CHIP	0.0033uF	10%	50V
C506	1-115-565-11	CERAMIC CHIP	2.2uF	10%	10V
C507	1-135-259-11	TANTAL. CHIP	10uF	20%	6.3V
C509	1-109-982-11	CERAMIC CHIP	1uF	10%	10V
C510	1-109-982-11	CERAMIC CHIP	1uF	10%	10V
C513	1-165-176-11	CERAMIC CHIP	0.047uF	10%	16V
C514	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C515	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C516	1-126-246-11	ELECT CHIP	220uF	20%	4V
C517	1-110-569-11	TANTAL. CHIP	47uF	20%	6.3V
C518	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V
C519	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V
C520	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C521	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V
C522	1-164-492-11	CERAMIC CHIP	0.15uF	10%	16V
C523	1-115-565-11	CERAMIC CHIP	2.2uF	10%	10V
C524	1-135-201-11	TANTALUM CHIP	10uF	20%	4V
C525	1-110-569-11	TANTAL. CHIP	47uF	20%	6.3V
C526	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C527	1-164-489-11	CERAMIC CHIP	0.22uF	10%	16V
C528	1-163-038-91	CERAMIC CHIP	0.1uF		25V
C529	1-110-569-11	TANTAL. CHIP	47uF	20%	6.3V
C530	1-109-982-11	CERAMIC CHIP	1uF	10%	10V
C531	1-109-982-11	CERAMIC CHIP	1uF	10%	10V
C532	1-109-982-11	CERAMIC CHIP	1uF	10%	10V
C534	1-162-921-11	CERAMIC CHIP	33PF	5%	50V
C535	1-162-915-11	CERAMIC CHIP	10PF	0.5PF	50V
C536	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C537	1-104-852-11	TANTAL. CHIP	22uF	20%	10V
C538	1-164-489-11	CERAMIC CHIP	0.22uF	10%	16V
C539	1-110-501-11	CERAMIC CHIP	0.33uF	10%	16V
C540	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C541	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C542	1-115-156-11	CERAMIC CHIP	1uF		10V
C543	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C544	1-164-816-11	CERAMIC CHIP	220PF	2%	50V
C545	1-164-816-11	CERAMIC CHIP	220PF	2%	50V
C546	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C547	1-164-315-11	CERAMIC CHIP	470PF	5%	50V
C548	1-164-315-11	CERAMIC CHIP	470PF	5%	50V
C549	1-164-315-11	CERAMIC CHIP	470PF	5%	50V
C550	1-164-315-11	CERAMIC CHIP	470PF	5%	50V
C552	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C558	1-163-038-91	CERAMIC CHIP	0.1uF		25V
C559	1-109-982-11	CERAMIC CHIP	1uF	10%	10V
C560	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C561	1-107-686-11	TANTAL. CHIP	4.7uF	20%	16V
C562	1-107-686-11	TANTAL. CHIP	4.7uF	20%	16V
C563	1-164-315-11	CERAMIC CHIP	470PF	5%	50V
C564	1-109-982-11	CERAMIC CHIP	1uF	10%	10V
C565	1-163-038-91	CERAMIC CHIP	0.1uF		25V
C566	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C567	1-109-982-11	CERAMIC CHIP	1uF	10%	10V
C569	1-164-227-11	CERAMIC CHIP	0.022uF	10%	25V
C604	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C611	1-104-847-11	TANTAL. CHIP	22uF	20%	4V
C613	1-107-686-11	TANTAL. CHIP	4.7uF	20%	16V
C801	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V

Ref. No.	Part No.	Description			Remarks
C802	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C803	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C804	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C805	1-109-982-11	CERAMIC CHIP	1uF	10%	10V
C806	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C807	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C808	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C809	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C811	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C812	1-164-346-11	CERAMIC CHIP	1uF		16V
C815	1-104-851-11	TANTAL. CHIP	10uF	20%	10V
C819	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C820	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C821	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C822	1-165-176-11	CERAMIC CHIP	0.047uF	10%	16V
		< CONNECTOR >			
CN501	1-566-530-11	CONNECTOR, FPC (ZIF) 14P			
* CN502	1-695-320-21	PIN, CONNECTOR (1.5MM)(SMD) 2P			
* CN503	1-695-320-31	PIN, CONNECTOR (1.5MM)(SMD) 2P			
* CN504	1-695-320-51	PIN, CONNECTOR (1.5MM)(SMD) 2P			
CN601	1-766-295-31	CONNECTOR, BOARD TO BOARD 24P			(T401,T405)
CN801	1-766-492-21	CONNECTOR, FFC/FPC (ZIF) 24P			
		< DIODE >			
D101	8-719-039-99	DIODE	UMZ8.2T-T106		
D102	8-719-977-03	DIODE	DTZ-TT11-5.6		
D201	8-719-039-99	DIODE	UMZ8.2T-T106		
D202	8-719-977-03	DIODE	DTZ-TT11-5.6		
D301	8-719-988-78	DIODE	SB007W03Q-TL		
D302	8-719-988-78	DIODE	SB007W03Q-TL		
D303	8-719-404-49	DIODE	MA111-TX		
D304	8-719-988-78	DIODE	SB007W03Q-TL		
D305	8-719-941-09	DIODE	DAP202UT106		
D306	8-719-404-49	DIODE	MA111-TX		
D307	8-719-049-09	DIODE	1SS367-T3SONY		
D308	8-719-049-09	DIODE	1SS367-T3SONY		
D401	8-719-048-98	DIODE	RB160L-40TE25		
D402	8-719-048-98	DIODE	RB160L-40TE25		
D403	8-719-048-98	DIODE	RB160L-40TE25		
D404	8-719-404-49	DIODE	MA111-TX		
D405	8-719-941-09	DIODE	DAP202UT106		
D406	8-719-938-72	DIODE	SB01-05CP-TB		
D407	8-719-049-09	DIODE	1SS367-T3SONY		
D410	8-719-404-49	DIODE	MA111-TX		
D411	8-719-988-78	DIODE	SB007W03Q-TL		
D412	8-719-049-09	DIODE	1SS367-T3SONY		
D413	8-719-056-62	DIODE	MA793-TX		
D414	8-719-404-49	DIODE	MA111-TX		
D415	8-719-049-09	DIODE	1SS367-T3SONY		
D416	8-719-049-09	DIODE	1SS367-T3SONY		
D418	8-719-049-09	DIODE	1SS367-T3SONY		
D419	8-719-977-03	DIODE	DTZ-TT11-5.6		
D501	8-719-404-49	DIODE	MA111-TX		
D505	8-719-049-09	DIODE	1SS367-T3SONY		
D601	8-719-024-81	DIODE	1SS300-TE85L		
D801	8-719-977-03	DIODE	DTZ-TT11-5.6		
D802	8-719-977-03	DIODE	DTZ-TT11-5.6		
D803	8-719-941-09	DIODE	DAP202UT106		
D804	8-719-941-09	DIODE	DAP202UT106		

CD

Ref. No.	Part No.	Description	Remarks
D805	8-719-977-03	DIODE DTZ-TT11-5.6	
D811	8-719-977-03	DIODE DTZ-TT11-5.6	
D812	8-719-404-49	DIODE MA111-TX	
		< FERRITE BEAD >	
FB101	1-414-385-11	INDUCTOR, FERRITE BEAD	
FB102	1-414-385-11	INDUCTOR, FERRITE BEAD	
FB201	1-414-385-11	INDUCTOR, FERRITE BEAD	
FB202	1-414-385-11	INDUCTOR, FERRITE BEAD	
FB301	1-414-385-11	INDUCTOR, FERRITE BEAD	
FB305	1-414-385-11	INDUCTOR, FERRITE BEAD	
FB306	1-414-385-11	INDUCTOR, FERRITE BEAD	
FB308	1-500-245-11	BEAD, FERRITE (CHIP)	
FB501	1-216-295-91	CONDUCTOR, CHIP (2012)	
FB802	1-414-385-11	INDUCTOR, FERRITE BEAD	
FB803	1-414-385-11	INDUCTOR, FERRITE BEAD	
FB805	1-414-385-11	INDUCTOR, FERRITE BEAD	
		< IC >	
IC101	8-759-062-66	IC TC7S66F (TE85R)	
IC102	8-759-062-66	IC TC7S66F (TE85R)	
IC201	8-759-062-66	IC TC7S66F (TE85R)	
IC202	8-759-062-66	IC TC7S66F (TE85R)	
IC301	8-759-459-18	IC TC9434AFNEL	
IC302	8-759-386-50	IC BA3574BFS-T1	
IC401	8-759-070-30	IC MB3776APNF-G-BND-EF	
IC403	8-759-374-16	IC TLV2362IPW-E05	
IC404	8-759-075-66	IC TA75S01F (TE85R)	
IC405	8-759-075-70	IC TA75S393F-TE85R	
IC406	8-759-176-73	IC RS5RJ32271-T1	
IC407	8-759-031-84	IC TC7S04F (TE85R)	
IC408	8-759-031-84	IC TC7S04F (TE85R)	
IC409	8-759-234-20	IC TC7S08F (TE85R)	
IC501	8-759-432-83	IC BA6386K	
IC502	8-759-474-74	IC BU9321BKS	
IC504	8-759-453-86	IC MPC17A50/SC250VMEL	
IC505	8-759-075-66	IC TA75S01F (TE85R)	
IC506	8-759-075-70	IC TA75S393F-TE85R	
IC801	8-759-481-06	IC HC05L24-SC440436CFU	
		< JACK >	
J301	1-778-633-11	JACK (LINE OUT) (T101,T401)	
J301	8-759-266-40	JACK (DIGITAL OUT) (T405)	
J302	1-580-680-31	JACK (PHONES/REMOTE)	
J401	1-691-099-51	JACK,DC (POLARITY UNIFIED TYPE)	(DC IN 4.5V)
		< JUMPER RESISTER >	
JC301	1-216-864-11	METAL CHIP 0 5% 1/16W	
JC303	1-216-864-11	METAL CHIP 0 5% 1/16W	
JC304	1-216-295-91	CONDUCTOR, CHIP (2012)	
JC501	1-216-864-11	METAL CHIP 0 5% 1/16W	
JC502	1-216-295-91	CONDUCTOR, CHIP (2012)	
JC503	1-216-295-91	CONDUCTOR, CHIP (2012)	
JC504	1-216-864-11	METAL CHIP 0 5% 1/16W	
JC505	1-216-864-11	METAL CHIP 0 5% 1/16W	
JC506	1-216-864-11	METAL CHIP 0 5% 1/16W	
JC507	1-216-864-11	METAL CHIP 0 5% 1/16W	
JC509	1-216-864-11	METAL CHIP 0 5% 1/16W	
		< COIL >	
L302	1-412-002-31	INDUCTOR CHIP 4.7uH	
L306	1-412-002-31	INDUCTOR CHIP 4.7uH	
L401	1-414-398-11	INDUCTOR 10uH	
L402	1-414-402-11	INDUCTOR 47uH	
L403	1-414-404-11	INDUCTOR 100uH	
L406	1-414-392-21	INDUCTOR 1uH	
L407	1-414-392-21	INDUCTOR 1uH	
L501	1-414-398-11	INDUCTOR 10uH	
L502	1-414-398-11	INDUCTOR 10uH	
L503	1-414-402-11	INDUCTOR 47uH	
L504	1-414-398-11	INDUCTOR 10uH	
L505	1-414-402-11	INDUCTOR 47uH	
L506	1-414-404-11	INDUCTOR 100uH	
L801	1-412-002-31	INDUCTOR CHIP 4.7uH	
		< TRANSISTOR >	
Q101	8-729-231-74	TRANSISTOR 2SC4116GL-TE85L	
Q201	8-729-231-74	TRANSISTOR 2SC4116GL-TE85L	
Q301	8-729-320-66	TRANSISTOR 2SD1950VL-T1	
Q302	8-729-907-39	TRANSISTOR IMD2T109	
Q303	8-729-028-73	TRANSISTOR DTA114EUA-T106	
Q304	8-729-029-06	TRANSISTOR DTC124EUA-T106	
Q305	8-729-029-14	TRANSISTOR DTC144EUA-T106	
Q306	8-729-029-14	TRANSISTOR DTC144EUA-T106	
Q307	8-729-028-73	TRANSISTOR DTA114EUA-T106	
Q308	8-729-029-06	TRANSISTOR DTC124EUA-T106	
Q309	8-729-028-73	TRANSISTOR DTA114EUA-T106	
Q401	8-729-400-55	TRANSISTOR 2SD1328-S-TX	
Q402	8-729-024-44	TRANSISTOR 2SK2315TYTR	
Q403	8-729-921-93	TRANSISTOR 2SB1182F5-QR-TLQR	
Q404	8-729-922-10	TRANSISTOR 2SA1577-T106-QR	
Q405	8-729-923-40	TRANSISTOR 2SD1963-T101-R	
Q406	8-729-231-74	TRANSISTOR 2SC4116GL-TE85L	
Q407	8-729-231-74	TRANSISTOR 2SC4116GL-TE85L	
Q408	8-729-039-84	TRANSISTOR RN2511-TE85R	
Q409	8-729-028-74	TRANSISTOR DTA114TUA-T106	
Q410	8-729-039-84	TRANSISTOR RN2511-TE85R	
Q412	8-729-029-06	TRANSISTOR DTC124EUA-T106	
Q413	8-729-029-06	TRANSISTOR DTC124EUA-T106	
Q414	8-729-028-83	TRANSISTOR DTA124EUA-T106	
Q415	8-729-028-83	TRANSISTOR DTA124EUA-T106	
Q420	8-729-024-44	TRANSISTOR 2SK2315TYTR	
Q421	8-729-400-55	TRANSISTOR 2SD1328-S-TX	
Q422	8-729-039-97	TRANSISTOR 2SK2463T100	
Q501	8-729-029-06	TRANSISTOR DTC124EUA-T106	
Q502	8-729-028-83	TRANSISTOR DTA124EUA-T106 (T401,T405)	
Q503	8-729-029-06	TRANSISTOR DTC124EUA-T106 (T401,T405)	
Q504	8-729-029-06	TRANSISTOR DTC124EUA-T106	
Q507	8-729-907-39	TRANSISTOR IMD2T109	
Q515	8-729-028-74	TRANSISTOR DTA114TUA-T106	
Q516	8-729-028-97	TRANSISTOR DTC114TUA-T106	
Q517	8-729-028-97	TRANSISTOR DTC114TUA-T106	
Q518	8-729-029-06	TRANSISTOR DTC124EUA-T106	
Q519	8-729-028-74	TRANSISTOR DTA114TUA-T106	
Q601	8-729-029-06	TRANSISTOR DTC124EUA-T106	
Q602	8-729-027-30	TRANSISTOR DTA123YKA-T146 (T405)	
Q801	8-729-231-74	TRANSISTOR 2SC4116GL-TE85L	
Q802	8-729-231-74	TRANSISTOR 2SC4116GL-TE85L	
Q803	8-729-402-93	TRANSISTOR UN5214-TX	
		< RESISTOR >	

Ref. No.	Part No.	Description			Remarks
R1	1-216-295-91	CONDUCTOR, CHIP (2012)			
R2	1-216-295-91	CONDUCTOR, CHIP (2012)			
R3	1-216-295-91	CONDUCTOR, CHIP (2012)			
R4	1-216-295-91	CONDUCTOR, CHIP (2012)			
R5	1-216-295-91	CONDUCTOR, CHIP (2012)			
R101	1-216-813-11	METAL CHIP	220	5%	1/16W
R102	1-216-849-11	METAL CHIP	220K	5%	1/16W
R103	1-216-834-11	METAL CHIP	12K	5%	1/16W
R105	1-216-821-11	METAL CHIP	1K	5%	1/16W
R106	1-216-789-11	METAL CHIP	2.2	5%	1/16W
R107	1-216-789-11	METAL CHIP	2.2	5%	1/16W
R201	1-216-813-11	METAL CHIP	220	5%	1/16W
R202	1-216-849-11	METAL CHIP	220K	5%	1/16W
R203	1-216-834-11	METAL CHIP	12K	5%	1/16W
R205	1-216-821-11	METAL CHIP	1K	5%	1/16W
R206	1-216-789-11	METAL CHIP	2.2	5%	1/16W
R207	1-216-789-11	METAL CHIP	2.2	5%	1/16W
R301	1-216-041-00	METAL CHIP	470	5%	1/10W
R302	1-216-845-11	METAL CHIP	100K	5%	1/16W
R303	1-216-797-11	METAL CHIP	10	5%	1/16W
R304	1-216-805-11	METAL CHIP	47	5%	1/16W
R305	1-216-864-11	METAL CHIP	0	5%	1/16W
R306	1-216-809-11	METAL CHIP	100	5%	1/16W
R307	1-216-864-11	METAL CHIP	0	5%	1/16W
R308	1-216-864-11	METAL CHIP	0	5%	1/16W
R309	1-216-857-11	METAL CHIP	1M	5%	1/16W
R310	1-216-817-11	METAL CHIP	470	5%	1/16W
R311	1-216-839-11	METAL CHIP	33K	5%	1/16W
R312	1-216-845-11	METAL CHIP	100K	5%	1/16W
R313	1-216-837-11	METAL CHIP	22K	5%	1/16W
R316	1-216-805-11	METAL CHIP	47	5%	1/16W
R318	1-216-833-11	METAL CHIP	10K	5%	1/16W
R320	1-216-864-11	METAL CHIP	0	5%	1/16W
R322	1-216-864-11	METAL CHIP	0	5%	1/16W
R401	1-218-885-11	METAL GLAZE	39K	0.50%	1/16W
R402	1-218-871-11	METAL GLAZE	10K	0.50%	1/16W
R403	1-216-833-11	METAL CHIP	10K	5%	1/16W
R404	1-216-805-11	METAL CHIP	47	5%	1/16W
R406	1-216-831-11	METAL CHIP	6.8K	5%	1/16W
R407	1-216-841-11	METAL CHIP	47K	5%	1/16W
R408	1-216-833-11	METAL CHIP	10K	5%	1/16W
R409	1-216-827-11	METAL CHIP	3.3K	5%	1/16W
R410	1-216-861-11	METAL CHIP	2.2M	5%	1/16W
R411	1-216-857-11	METAL CHIP	1M	5%	1/16W
R412	1-216-857-11	METAL CHIP	1M	5%	1/16W
R413	1-216-859-11	METAL GLAZE	1.5M	5%	1/16W
R414	1-216-841-11	METAL CHIP	47K	5%	1/16W
R415	1-216-861-11	METAL CHIP	2.2M	5%	1/16W
R416	1-216-859-11	METAL GLAZE	1.5M	5%	1/16W
R417	1-216-847-11	METAL CHIP	150K	5%	1/16W
R418	1-216-834-11	METAL CHIP	12K	5%	1/16W
R419	1-218-887-11	METAL GLAZE	47K	0.50%	1/16W
R420	1-218-887-11	METAL GLAZE	47K	0.50%	1/16W
R421	1-216-847-11	METAL CHIP	150K	5%	1/16W
R422	1-218-879-11	METAL GLAZE	22K	0.50%	1/16W
R423	1-218-879-11	METAL GLAZE	22K	0.50%	1/16W
R424	1-218-872-11	METAL GLAZE	11K	0.50%	1/16W
R425	1-218-872-11	METAL GLAZE	11K	0.50%	1/16W
R426	1-216-834-11	METAL CHIP	12K	5%	1/16W
R427	1-216-829-11	METAL CHIP	4.7K	5%	1/16W
R428	1-216-829-11	METAL CHIP	4.7K	5%	1/16W
R429	1-216-809-11	METAL CHIP	100	5%	1/16W
R430	1-217-806-11	METAL GLAZE	1	5%	1/8W
R431	1-217-806-11	METAL GLAZE	1	5%	1/8W
R432	1-216-837-11	METAL CHIP	22K	5%	1/16W
R433	1-216-831-11	METAL CHIP	6.8K	5%	1/16W
R436	1-216-833-11	METAL CHIP	10K	5%	1/16W
R437	1-216-797-11	METAL CHIP	10	5%	1/16W
R439	1-216-849-11	METAL CHIP	220K	5%	1/16W
R440	1-216-845-11	METAL CHIP	100K	5%	1/16W
R441	1-216-861-11	METAL CHIP	2.2M	5%	1/16W
R442	1-216-843-11	METAL CHIP	68K	5%	1/16W
R443	1-216-833-11	METAL CHIP	10K	5%	1/16W
R444	1-216-833-11	METAL CHIP	10K	5%	1/16W
R447	1-216-845-11	METAL CHIP	100K	5%	1/16W
R448	1-216-845-11	METAL CHIP	100K	5%	1/16W
R449	1-216-835-11	METAL CHIP	15K	5%	1/16W
R450	1-216-857-11	METAL CHIP	1M	5%	1/16W
R451	1-216-837-11	METAL CHIP	22K	5%	1/16W
R454	1-216-841-11	METAL CHIP	47K	5%	1/16W
R455	1-216-821-11	METAL CHIP	1K	5%	1/16W
R456	1-216-833-11	METAL CHIP	10K	5%	1/16W
R457	1-216-815-11	METAL CHIP	330	5%	1/16W
R458	1-216-845-11	METAL CHIP	100K	5%	1/16W
R459	1-216-845-11	METAL CHIP	100K	5%	1/16W
R460	1-216-295-91	CONDUCTOR, CHIP (2012)			
R462	1-216-835-11	METAL CHIP	15K	5%	1/16W
R501	1-216-864-11	METAL CHIP	0	5%	1/16W
R502	1-216-829-11	METAL CHIP	4.7K	5%	1/16W
R503	1-216-829-11	METAL CHIP	4.7K	5%	1/16W
R504	1-216-838-11	METAL CHIP	27K	5%	1/16W
R505	1-216-829-11	METAL CHIP	4.7K	5%	1/16W
R506	1-216-833-11	METAL CHIP	10K	5%	1/16W
R508	1-216-829-11	METAL CHIP	4.7K	5%	1/16W
R509	1-216-835-11	METAL CHIP	15K	5%	1/16W
R510	1-218-877-11	METAL GLAZE	18K	0.50%	1/16W
R511	1-216-833-11	METAL CHIP	10K	5%	1/16W
R513	1-216-821-11	METAL CHIP	1K	5%	1/16W
R514	1-216-845-11	METAL CHIP	100K	5%	1/16W
R518	1-216-833-11	METAL CHIP	10K	5%	1/16W
R519	1-216-831-11	METAL CHIP	6.8K	5%	1/16W
R520	1-218-871-11	METAL GLAZE	10K	0.50%	1/16W
R521	1-216-827-11	METAL CHIP	3.3K	5%	1/16W
R522	1-216-857-11	METAL CHIP	1M	5%	1/16W
R523	1-216-832-11	METAL CHIP	8.2K	5%	1/16W
R524	1-218-871-11	METAL GLAZE	10K	0.50%	1/16W
R525	1-216-821-11	METAL CHIP	1K	5%	1/16W
R527	1-216-843-11	METAL CHIP	68K	5%	1/16W
R528	1-216-829-11	METAL CHIP	4.7K	5%	1/16W
R529	1-216-837-11	METAL CHIP	22K	5%	1/16W
R530	1-216-815-11	METAL CHIP	330	5%	1/16W
R533	1-216-841-11	METAL CHIP	47K	5%	1/16W
R535	1-216-829-11	METAL CHIP	4.7K	5%	1/16W
R536	1-216-845-11	METAL CHIP	100K	5%	1/16W
R537	1-216-854-11	METAL CHIP	560K	5%	1/16W
R538	1-216-846-11	METAL CHIP	120K	5%	1/16W
R539	1-216-857-11	METAL CHIP	1M	5%	1/16W
R540	1-216-825-11	METAL CHIP	2.2K	5%	1/16W
R541	1-216-843-11	METAL CHIP	68K	5%	1/16W
R542	1-218-879-11	METAL GLAZE	22K	0.50%	1/16W
R543	1-216-853-11	METAL CHIP	470K	5%	1/16W

CD **ESP**

Ref. No.	Part No.	Description			Remarks
R545	1-216-849-11	METAL CHIP	220K	5%	1/16W
R546	1-218-879-11	METAL GLAZE	22K	0.50%	1/16W
R547	1-216-825-11	METAL CHIP	2.2K	5%	1/16W
R548	1-216-825-11	METAL CHIP	2.2K	5%	1/16W
R549	1-216-833-11	METAL CHIP	10K	5%	1/16W
R550	1-216-864-11	METAL CHIP	0	5%	1/16W
R552	1-216-864-11	METAL CHIP	0	5%	1/16W
R557	1-216-864-11	METAL CHIP	0	5%	1/16W
R558	1-218-852-11	METAL GLAZE	1.6K	0.50%	1/16W
R559	1-218-903-11	METAL GLAZE	220K	0.50%	1/16W
R567	1-218-871-11	METAL GLAZE	10K	0.50%	1/16W
R569	1-216-841-11	METAL CHIP	47K	5%	1/16W
R571	1-216-864-11	METAL CHIP	0	5%	1/16W
R573	1-216-864-11	METAL CHIP	0	5%	1/16W
R574	1-216-846-11	METAL CHIP	120K	5%	1/16W
R575	1-216-846-11	METAL CHIP	120K	5%	1/16W
R576	1-216-829-11	METAL CHIP	4.7K	5%	1/16W
R577	1-218-885-11	METAL GLAZE	39K	0.50%	1/16W
R578	1-216-845-11	METAL CHIP	100K	5%	1/16W
R603	1-216-833-11	METAL CHIP	10K	5%	1/16W
R604	1-216-833-11	METAL CHIP	10K	5%	1/16W
R611	1-216-864-11	METAL CHIP	0	5%	1/16W (T405)
R613	1-216-864-11	METAL CHIP	0	5%	1/16W (T101)
R614	1-216-864-11	METAL CHIP	0	5%	1/16W (T101,T405)
R615	1-216-864-11	METAL CHIP	0	5%	1/16W (T101,T405)
R802	1-216-833-11	METAL CHIP	10K	5%	1/16W
R803	1-216-821-11	METAL CHIP	1K	5%	1/16W
R804	1-216-854-11	METAL CHIP	560K	5%	1/16W
R805	1-216-861-11	METAL CHIP	2.2M	5%	1/16W
R806	1-216-857-11	METAL CHIP	1M	5%	1/16W
R807	1-216-857-11	METAL CHIP	1M	5%	1/16W
R808	1-216-821-11	METAL CHIP	1K	5%	1/16W
R809	1-216-857-11	METAL CHIP	1M	5%	1/16W
R810	1-216-857-11	METAL CHIP	1M	5%	1/16W
R812	1-216-864-11	METAL CHIP	0	5%	1/16W
R822	1-218-883-11	METAL GLAZE	33K	0.50%	1/16W
R823	1-216-853-11	METAL CHIP	470K	5%	1/16W
R828	1-218-903-11	METAL GLAZE	220K	0.50%	1/16W (T405)
R829	1-218-901-11	METAL GLAZE	180K	0.50%	1/16W (T405)
R830	1-218-907-11	METAL GLAZE	330K	0.50%	1/16W (T401,T405)
R832	1-216-833-11	METAL CHIP	10K	5%	1/16W
R835	1-216-821-11	METAL CHIP	1K	5%	1/16W
R836	1-218-895-11	METAL GLAZE	100K	0.50%	1/16W
R837	1-218-895-11	METAL GLAZE	100K	0.50%	1/16W
R838	1-216-857-11	METAL CHIP	1M	5%	1/16W
R841	1-216-821-11	METAL CHIP	1K	5%	1/16W
R842	1-216-821-11	METAL CHIP	1K	5%	1/16W
R843	1-216-821-11	METAL CHIP	1K	5%	1/16W
R844	1-216-833-11	METAL CHIP	10K	5%	1/16W
R847	1-216-295-91	CONDUCTOR, CHIP (2012)			
R848	1-216-857-11	METAL CHIP	1M	5%	1/16W
R849	1-216-821-11	METAL CHIP	1K	5%	1/16W
R850	1-216-821-11	METAL CHIP	1K	5%	1/16W
R851	1-216-821-11	METAL CHIP	1K	5%	1/16W
R852	1-216-864-11	METAL CHIP	0	5%	1/16W
R853	1-216-864-11	METAL CHIP	0	5%	1/16W
R854	1-216-864-11	METAL CHIP	0	5%	1/16W
R855	1-216-821-11	METAL CHIP	1K	5%	1/16W
R856	1-216-821-11	METAL CHIP	1K	5%	1/16W
R857	1-216-821-11	METAL CHIP	1K	5%	1/16W
R858	1-216-821-11	METAL CHIP	1K	5%	1/16W
R859	1-216-864-11	METAL CHIP	0	5%	1/16W
R860	1-216-864-11	METAL CHIP	0	5%	1/16W
R861	1-216-864-11	METAL CHIP	0	5%	1/16W (T401,T405)
R862	1-216-864-11	METAL CHIP	0	5%	1/16W
R863	1-216-864-11	METAL CHIP	0	5%	1/16W
R864	1-216-864-11	METAL CHIP	0	5%	1/16W
R865	1-216-864-11	METAL CHIP	0	5%	1/16W
R866	1-216-864-11	METAL CHIP	0	5%	1/16W
R867	1-216-864-11	METAL CHIP	0	5%	1/16W
R868	1-216-821-11	METAL CHIP	1K	5%	1/16W
R870	1-216-864-11	METAL CHIP	0	5%	1/16W
		< VARIABLE RESISTOR >			
RV301	1-223-382-11	RES, VAR, CARBON 10K/10K			
RV401	1-241-395-11	RES, ADJ, METAL GLAZE 10K			
RV501	1-241-395-11	RES, ADJ, METAL GLAZE 10K			
RV502	1-223-587-11	RES, ADJ, CARBON 22K			
RV503	1-223-587-11	RES, ADJ, CARBON 22K			
		< SWITCH >			
S301	1-762-078-11	SWITCH, SLIDE (AVLS)			
S801	1-570-953-11	SWITCH, PUSH (1 KEY) (OPEN)			
S802	1-762-455-21	SWITCH, PUSH (1 KEY) (BATT)			
S803	1-762-078-11	SWITCH, SLIDE (RESUME)			
S804	1-762-078-11	SWITCH, SLIDE (HOLD)			
		< TRANSFORMER >			
T401	1-429-850-11	TRANSFORMER, DC-DC CONVERTER			
T402	1-429-851-11	TRANSFORMER, DC-DC CONVERTER			
		< VIBRATOR >			
X301	1-760-023-21	VIBRATOR, CRYSTAL 16.9MHz			
X801	1-579-063-21	VIBRATOR, CERAMIC 4.19MHz			
**********					
	A-3306-405-A	ESP BOARD, COMPLETE (T401)			
		**********			
	A-3306-394-A	ESP BOARD, COMPLETE (T405)			
		**********			
		< CAPACITOR >			
C601	1-164-346-11	CERAMIC CHIP	1uF		16V (T401,T405)
C602	1-164-156-11	CERAMIC CHIP	0.1uF		25V (T401,T405)
C603	1-164-346-11	CERAMIC CHIP	1uF		16V (T401,T405)
		< CONNECTOR >			
CN602	1-778-710-41	CONNECTOR, BOARD TO BOARD 24P			(T401,T405)

Ref. No.	Part No.	Description			Remarks
		< FERRITE BEAD >			
FB601	1-216-295-91	CONDUCTOR, CHIP (2012) (T401,T405)			
		< IC >			
IC601	8-759-445-16	IC SM5859AF (T401)			
IC601	8-759-479-88	IC SM5858BF (T405)			
IC602	8-759-349-44	IC MB81V4400C-60PFTN (T401,T405)			
		< JUMPER RESISTER >			
JC602	1-216-864-11	METAL CHIP	0	5%	1/16W (T401,T405)
JC603	1-216-864-11	METAL CHIP	0	5%	1/16W (T401,T405)
JC604	1-216-864-11	METAL CHIP	0	5%	1/16W (T401,T405)
		< RESISTOR >			
R602	1-216-833-11	METAL CHIP	10K	5%	1/16W (T401,T405)
R605	1-216-864-11	METAL CHIP	0	5%	1/16W (T401,T405)
R606	1-216-864-11	METAL CHIP	0	5%	1/16W (T401,T405)
R607	1-216-864-11	METAL CHIP	0	5%	1/16W (T401,T405)
R608	1-216-864-11	METAL CHIP	0	5%	1/16W (T401,T405)
R609	1-216-864-11	METAL CHIP	0	5%	1/16W (T401,T405)
R610	1-216-864-11	METAL CHIP	0	5%	1/16W (T401,T405)
R612	1-216-821-11	METAL CHIP	1K	5%	1/16W (T405)
**********					
	A-3293-386-A	TUNER BOARD, COMPLETE (AEP,IT,UK/T101:EA)			
		**********			
	A-3293-385-A	TUNER BOARD, COMPLETE (E13,E33,E92,AUS,CN/T401,T405:US,CND)			
		**********			
	A-3293-384-A	TUNER BOARD, COMPLETE (T405:JEW)			
		**********			
	1-694-264-11	CONDUCTIVE BOARD, CONNECTION			
	4-989-982-01	HOLDER (LCD)			
		< CAPACITOR >			
C6	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C7	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C8	1-162-915-11	CERAMIC CHIP	10PF	0.5PF	50V
C9	1-162-923-11	CERAMIC CHIP	47PF	5%	50V
C10	1-162-923-11	CERAMIC CHIP	47PF	5%	50V
C11	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C12	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C13	1-162-911-11	CERAMIC CHIP	6PF	0.5PF	50V
C14	1-162-913-11	CERAMIC CHIP	8PF	0.5PF	50V
C15	1-162-975-11	CERAMIC CHIP	24PF	5%	50V
C16	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C17	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C18	1-162-912-11	CERAMIC CHIP	7PF	0.5PF	50V (T101,T401/T405:EXCEPT JEW)
C19	1-162-905-11	CERAMIC CHIP	1PF	0.25PF	50V
C20	1-162-928-11	CERAMIC CHIP	120PF	5%	50V
C21	1-162-905-11	CERAMIC CHIP	1PF	0.25PF	50V
C22	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C23	1-104-852-11	TANTAL. CHIP	22uF	20%	10V
C24	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C25	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C26	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C27	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C28	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C29	1-164-227-11	CERAMIC CHIP	0.022uF	10%	25V
C30	1-164-816-11	CERAMIC CHIP	220PF	2%	50V
C31	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C32	1-164-227-11	CERAMIC CHIP	0.022uF	10%	25V
C33	1-104-852-11	TANTAL. CHIP	22uF	20%	10V
C34	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C35	1-162-918-11	CERAMIC CHIP	18PF	5%	50V
C36	1-162-923-11	CERAMIC CHIP	47PF	5%	50V
C37	1-164-315-11	CERAMIC CHIP	470PF	5%	50V
C38	1-162-923-11	CERAMIC CHIP	47PF	5%	50V
C39	1-164-227-11	CERAMIC CHIP	0.022uF	10%	25V
C40	1-104-852-11	TANTAL. CHIP	22uF	20%	10V
C41	1-165-176-11	CERAMIC CHIP	0.047uF	10%	16V
C42	1-164-227-11	CERAMIC CHIP	0.022uF	10%	25V
C43	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C44	1-104-912-11	TANTAL. CHIP	3.3uF	20%	16V
C45	1-164-362-11	CERAMIC CHIP	470PF	5%	50V
C46	1-162-961-11	CERAMIC CHIP	330PF	10%	50V
C47	1-115-156-11	CERAMIC CHIP	1uF		10V
C48	1-115-156-11	CERAMIC CHIP	1uF		10V
C49	1-104-912-11	TANTAL. CHIP	3.3uF	20%	16V
C50	1-163-139-00	CERAMIC CHIP	820PF	5%	50V
C51	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C52	1-104-912-11	TANTAL. CHIP	3.3uF	20%	16V
C53	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C54	1-164-345-11	CERAMIC CHIP	0.082uF	10%	25V
C55	1-165-176-11	CERAMIC CHIP	0.047uF	10%	16V
C56	1-162-968-11	CERAMIC CHIP	0.0047uF	10%	50V
C57	1-162-968-11	CERAMIC CHIP	0.0047uF	10%	50V
C58	1-162-968-11	CERAMIC CHIP	0.0047uF	10%	50V
C59	1-115-156-11	CERAMIC CHIP	1uF		10V
C60	1-115-156-11	CERAMIC CHIP	1uF		10V
C61	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C62	1-164-315-11	CERAMIC CHIP	470PF	5%	50V
C63	1-110-501-11	CERAMIC CHIP	0.33uF	10%	16V
C64	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C65	1-109-982-11	CERAMIC CHIP	1uF	10%	10V
C66	1-164-227-11	CERAMIC CHIP	0.022uF	10%	25V
C67	1-165-176-11	CERAMIC CHIP	0.047uF	10%	16V
C68	1-164-227-11	CERAMIC CHIP	0.022uF	10%	25V
C69	1-104-852-11	TANTAL. CHIP	22uF	20%	10V
C70	1-164-315-11	CERAMIC CHIP	470PF	5%	50V
C72	1-115-156-11	CERAMIC CHIP	1uF		10V
C73	1-162-965-11	CERAMIC CHIP	0.0015uF	10%	50V
C74	1-104-912-11	TANTAL. CHIP	3.3uF	20%	16V
C75	1-115-156-11	CERAMIC CHIP	1uF		10V
C80	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C81	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C82	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C83	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C84	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V

TUNER

Ref. No.	Part No.	Description			Remarks
C85	1-164-315-11	CERAMIC CHIP	470PF	5%	50V
C86	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C87	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C88	1-104-912-11	TANTAL. CHIP	3.3uF	20%	16V
C89	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C90	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C91	1-162-917-11	CERAMIC CHIP	15PF	5%	50V
C92	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C93	1-104-852-11	TANTAL. CHIP	22uF	20%	10V
C94	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C95	1-104-912-11	TANTAL. CHIP	3.3uF	20%	16V
C96	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C98	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C99	1-164-315-11	CERAMIC CHIP	470PF	5%	50V
C100	1-164-315-11	CERAMIC CHIP	470PF	5%	50V
C101	1-164-315-11	CERAMIC CHIP	470PF	5%	50V
C102	1-164-315-11	CERAMIC CHIP	470PF	5%	50V
C103	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C104	1-104-912-11	TANTAL. CHIP	3.3uF	20%	16V
C105	1-162-917-11	CERAMIC CHIP	15PF	5%	50V
		< FILTER >			
CF1	1-767-313-11	FILTER, CERAMIC 10.7MHz			
CF2	1-579-823-21	FILTER, CERAMIC 450kHz			
CF3	1-767-357-11	FILTER, CERAMIC 10.7MHz			
CF4	1-767-313-11	FILTER, CERAMIC 10.7MHz			
		< CONNECTOR >			
CN1	1-691-499-11	CONNECTOR, FFC/FPC 20P			
		< TRIMMER >			
CT2	1-141-327-11	CAP, CHIP TYPE TRIMMER 10PF			
CT3	1-141-327-11	CAP, CHIP TYPE TRIMMER 10PF			
		< DIODE >			
D1	8-719-421-69	DIODE MA133-TX			
D2	8-719-404-49	DIODE MA111-TX			
D3	8-719-951-05	DIODE KV1560-TL00			
D4	8-719-053-30	DIODE MA357 (E)-(TX).SO			
D5	8-719-053-30	DIODE MA357 (E)-(TX).SO			
D6	8-719-938-72	DIODE SB01-05CP-TB			
D8	8-719-056-88	DIODE UDZ-TE-17-11B			
D9	8-719-404-49	DIODE MA111-TX			
D10	8-719-938-72	DIODE SB01-05CP-TB			
D14	8-719-404-49	DIODE MA111-TX			
D15	8-719-404-49	DIODE MA111-TX			
D16	8-719-404-49	DIODE MA111-TX			
		< FILTER >			
FL1	1-236-053-11	FILTER, BAND PASS (AEP, IT, UK/T101:EA)			
FL1	1-236-069-21	FILTER, BAND PASS (E13, E33, E92, AUS, CN/T401:US, CND/T405:US, CND, JEW)			

Ref. No.	Part No.	Description			Remarks
		< IC >			
IC2	8-759-362-25	IC TA2022AFN-EL			
IC3	8-759-347-77	IC S-81233SG-QF-T1			
IC4	8-759-485-60	IC RN5VT23AA-TR			
IC5	8-759-461-02	IC uPD17072GB-542-1A7			
IC6	8-759-449-23	IC AK93C55AV-L			
IC7	8-759-293-74	IC NJM2100E-T1			
IC8	8-759-461-03	IC uPD754302GS-039-E1			
		< JUMPER RESISTER >			
JC7	1-216-864-11	METAL CHIP	0	5%	1/16W
JC8	1-216-864-11	METAL CHIP	0	5%	1/16W
		< COIL >			
L1	1-412-006-31	INDUCTOR CHIP 10uH			
L2	1-402-974-21	COIL (WITH CORE) (FM-RF)			
L3	1-416-263-11	COIL (WITH CORE) (FM-OSC) (T101, T401/T405:EXCEPT JEW)			
L3	1-402-975-21	COIL (WITH CORE) (FM-OSC) (T405:JEW)			
L4	1-412-002-31	INDUCTOR CHIP 4.7uH			
L5	1-412-002-31	INDUCTOR CHIP 4.7uH			
L6	1-412-006-31	INDUCTOR CHIP 10uH			
L7	1-416-164-11	COIL, FERRITE-ROD ANTENNA			
L8	1-412-029-11	INDUCTOR CHIP 10uH			
L9	1-412-032-11	INDUCTOR CHIP 100uH			
L10	1-412-006-31	INDUCTOR CHIP 10uH			
L11	1-412-002-31	INDUCTOR CHIP 4.7uH			
L12	1-412-011-31	INDUCTOR CHIP 27uH			
		< FLUORECENT INDICATOR >			
ND1	1-801-719-11	DISPLAY PANEL, LIQUID CRYSTAL			
		< TRANSISTOR >			
Q1	8-729-923-28	TRANSISTOR 2SC4083-T106N			
Q2	8-729-923-28	TRANSISTOR 2SC4083-T106N			
Q3	8-729-923-28	TRANSISTOR 2SC4083-T106N			
Q4	8-729-423-52	TRANSISTOR 2SC3931-C-TX			
Q5	8-729-423-52	TRANSISTOR 2SC3931-C-TX			
Q7	8-729-117-72	TRANSISTOR 2SC4178-T1F13			
Q10	8-729-429-71	TRANSISTOR XN4314-TX			
Q11	8-729-402-93	TRANSISTOR UN5214-TX			
Q12	8-729-420-53	TRANSISTOR UN5115-(TX)			
Q16	8-729-807-87	TRANSISTOR 2SB1295-UL6-TB			
Q17	8-729-231-96	TRANSISTOR 2SK880GR-TE85L			
Q19	8-729-602-21	TRANSISTOR 2SC4154TP-1F			
Q20	8-729-231-96	TRANSISTOR 2SK880GR-TE85L			
Q22	8-729-800-37	TRANSISTOR 2SD1048X7-TB			
Q23	8-729-400-55	TRANSISTOR 2SD1328-S-TX			
Q24	8-729-800-71	TRANSISTOR 2SB815B6-TB			
Q28	8-729-420-53	TRANSISTOR UN5115-(TX)			
Q29	8-729-420-53	TRANSISTOR UN5115-(TX)			
Q30	8-729-423-52	TRANSISTOR 2SC3931-C-TX			
Q31	8-729-423-52	TRANSISTOR 2SC3931-C-TX			
Q32	8-729-429-44	TRANSISTOR XP1501-TXE			
Q33	8-729-807-87	TRANSISTOR 2SB1295-UL6-TB			
Q35	8-729-800-71	TRANSISTOR 2SB815B6-TB			
Q36	8-729-429-71	TRANSISTOR XN4314-TX			
Q37	8-729-429-71	TRANSISTOR XN4314-TX			

Ref. No.	Part No.	Description			Remarks
Q38	8-729-429-71	TRANSISTOR XN4314-TX			
Q39	8-729-420-16	TRANSISTOR XN1214-TX			
Q40	8-729-402-93	TRANSISTOR UN5214-TX			
Q41	8-729-429-71	TRANSISTOR XN4314-TX (T405:JEW)			
Q42	8-729-402-93	TRANSISTOR UN5214-TX			
Q43	8-729-420-16	TRANSISTOR XN1214-TX			
Q44	8-729-030-46	TRANSISTOR XP4314-TX			
		< RESISTOR >			
R1	1-216-843-11	METAL CHIP	68K	5%	1/16W
R2	1-216-853-11	METAL CHIP	470K	5%	1/16W
R4	1-216-845-11	METAL CHIP	100K	5%	1/16W
R5	1-216-825-11	METAL CHIP	2.2K	5%	1/16W
R6	1-216-839-11	METAL CHIP	33K	5%	1/16W
R8	1-216-853-11	METAL CHIP	470K	5%	1/16W
R9	1-216-827-11	METAL CHIP	3.3K	5%	1/16W
R10	1-216-809-11	METAL CHIP	100	5%	1/16W
R11	1-216-815-11	METAL CHIP	330	5%	1/16W
R12	1-216-843-11	METAL CHIP	68K	5%	1/16W
R13	1-216-821-11	METAL CHIP	1K	5%	1/16W
R14	1-216-813-11	METAL CHIP	220	5%	1/16W
R16	1-216-821-11	METAL CHIP	1K	5%	1/16W
R18	1-216-825-11	METAL CHIP	2.2K	5%	1/16W
R19	1-216-845-11	METAL CHIP	100K	5%	1/16W
R20	1-216-833-11	METAL CHIP	10K	5%	1/16W
R21	1-216-857-11	METAL CHIP	1M	5%	1/16W
R22	1-216-853-11	METAL CHIP	470K	5%	1/16W
R23	1-216-833-11	METAL CHIP	10K	5%	1/16W
R24	1-216-857-11	METAL CHIP	1M	5%	1/16W
R25	1-216-837-11	METAL CHIP	22K	5%	1/16W
R26	1-216-826-11	METAL CHIP	2.7K	5%	1/16W
R27	1-216-829-11	METAL CHIP	4.7K	5%	1/16W
R28	1-216-833-11	METAL CHIP	10K	5%	1/16W
R29	1-216-837-11	METAL CHIP	22K	5%	1/16W
R30	1-216-833-11	METAL CHIP	10K	5%	1/16W
R31	1-216-833-11	METAL CHIP	10K	5%	1/16W
R32	1-216-823-11	METAL CHIP	1.5K	5%	1/16W
R34	1-216-817-11	METAL CHIP	470	5%	1/16W
R35	1-216-829-11	METAL CHIP	4.7K	5%	1/16W
R36	1-216-828-11	METAL CHIP	3.9K	5%	1/16W
R37	1-216-821-11	METAL CHIP	1K	5%	1/16W
R38	1-216-830-11	METAL CHIP	5.6K	5%	1/16W
R39	1-216-833-11	METAL CHIP	10K	5%	1/16W
R40	1-216-837-11	METAL CHIP	22K	5%	1/16W
R41	1-216-829-11	METAL CHIP	4.7K	5%	1/16W
R42	1-216-841-11	METAL CHIP	47K	5%	1/16W
R43	1-216-857-11	METAL CHIP	1M	5%	1/16W
R44	1-216-833-11	METAL CHIP	10K	5%	1/16W
R45	1-216-821-11	METAL CHIP	1K	5%	1/16W
R47	1-216-821-11	METAL CHIP	1K	5%	1/16W
R48	1-216-857-11	METAL CHIP	1M	5%	1/16W
R50	1-216-864-11	METAL CHIP	0	5%	1/16W
R51	1-216-833-11	METAL CHIP	10K	5%	1/16W
R52	1-216-846-11	METAL CHIP	120K	5%	1/16W
R53	1-216-819-11	METAL CHIP	680	5%	1/16W
R54	1-216-829-11	METAL CHIP	4.7K	5%	1/16W
R55	1-216-845-11	METAL CHIP	100K	5%	1/16W
R56	1-216-833-11	METAL CHIP	10K	5%	1/16W
R57	1-218-880-11	METAL GLAZE	24K	0.50%	1/16W
	(E13, E33, E92, AUS, CN/T401:US, CND/T405:US, CND, JEW)				

Ref. No.	Part No.	Description			Remarks
R58	1-216-864-11	METAL CHIP	0	5%	1/16W
					(AEP, IT, UK/T101:EA)
R60	1-216-809-11	METAL CHIP	100	5%	1/16W
R61	1-216-835-11	METAL CHIP	15K	5%	1/16W
R62	1-216-833-11	METAL CHIP	10K	5%	1/16W
R63	1-216-821-91	METAL CHIP	1K (1608)	5%	1/16W
R64	1-216-821-91	METAL CHIP	1K (1608)	5%	1/16W
R65	1-216-821-91	METAL CHIP	1K (1608)	5%	1/16W
R66	1-216-821-91	METAL CHIP	1K (1608)	5%	1/16W
R67	1-216-837-11	METAL CHIP	22K	5%	1/16W
R68	1-216-823-11	METAL CHIP	1.5K	5%	1/16W
R69	1-216-809-11	METAL CHIP	100	5%	1/16W
R70	1-216-809-11	METAL CHIP	100	5%	1/16W
R71	1-216-837-11	METAL CHIP	22K	5%	1/16W
R72	1-216-821-11	METAL CHIP	1K	5%	1/16W
R73	1-216-833-11	METAL CHIP	10K	5%	1/16W
R74	1-216-821-91	METAL CHIP	1K (1608)	5%	1/16W
R80	1-216-821-11	METAL CHIP	1K	5%	1/16W
R81	1-216-823-11	METAL CHIP	1.5K	5%	1/16W
R82	1-216-825-11	METAL CHIP	2.2K	5%	1/16W
R83	1-216-827-11	METAL CHIP	3.3K	5%	1/16W
R84	1-216-829-11	METAL CHIP	4.7K	5%	1/16W
R85	1-216-831-11	METAL CHIP	6.8K	5%	1/16W
R86	1-216-833-11	METAL CHIP	10K	5%	1/16W
R87	1-216-821-91	METAL CHIP	1K (1608)	5%	1/16W
R90	1-216-841-11	METAL CHIP	47K	5%	1/16W
R91	1-216-841-11	METAL CHIP	47K	5%	1/16W
R92	1-216-845-11	METAL CHIP	100K	5%	1/16W
R93	1-216-845-11	METAL CHIP	100K	5%	1/16W
R94	1-216-847-11	METAL CHIP	150K	5%	1/16W
R95	1-216-833-11	METAL CHIP	10K	5%	1/16W
R96	1-216-845-11	METAL CHIP	100K	5%	1/16W
R97	1-216-845-11	METAL CHIP	100K	5%	1/16W
R98	1-216-847-11	METAL CHIP	150K	5%	1/16W
R99	1-216-833-11	METAL CHIP	10K	5%	1/16W
R100	1-216-833-11	METAL CHIP	10K	5%	1/16W
R101	1-216-833-11	METAL CHIP	10K	5%	1/16W
R102	1-216-845-11	METAL CHIP	100K	5%	1/16W
R103	1-216-845-11	METAL CHIP	100K	5%	1/16W
R112	1-216-821-11	METAL CHIP	1K	5%	1/16W
R113	1-216-833-11	METAL CHIP	10K	5%	1/16W
R114	1-216-849-11	METAL CHIP	220K	5%	1/16W
R115	1-218-880-11	METAL GLAZE	24K	0.50%	1/16W
		< VARIABLE RESISTOR >			
RV1	1-223-578-11	RES, ADJ, METAL GLAZE 22K			
		< SWITCH >			
S1	1-771-053-21	SWITCH, KEY BOARD (TUNE+)			
S2	1-771-053-21	SWITCH, KEY BOARD (BAND)			
S3	1-771-053-21	SWITCH, KEY BOARD (2)			
S4	1-771-053-21	SWITCH, KEY BOARD (4)			
S5	1-771-053-21	SWITCH, KEY BOARD (TUNE-)			
S6	1-771-053-21	SWITCH, KEY BOARD (1)			
S7	1-771-053-21	SWITCH, KEY BOARD (3)			
S8	1-771-053-21	SWITCH, KEY BOARD (5)			
S10	1-572-922-11	SWITCH, SLIDE (FUNCTION)			
S11	1-572-922-11	SWITCH, SLIDE			
	(E13, E33, E92, AUS, CN/T401:US, CND/T405:US, CND, JEW)				

TUNER

Ref. No.	Part No.	Description	Remarks
S12	1-692-605-11	SWITCH, SLIDE (MEGABASS)	
S21	1-771-053-21	SWITCH, KEY BOARD (PLAY/PAUSE)	
S22	1-771-053-21	SWITCH, KEY BOARD (FR)	
S23	1-771-053-21	SWITCH, KEY BOARD (FF)	
S24	1-771-053-21	SWITCH, KEY BOARD (STOP)	
S25	1-771-053-21	SWITCH, KEY BOARD (PLAYMODE)	
S26	1-771-053-21	SWITCH, KEY BOARD (REPEAT/ENT)	
S28	1-771-053-21	SWITCH, KEY BOARD (ESP)	
		< TRANSFORMER >	
T1	1-416-184-11	COIL,FM IFT	
T2	1-411-603-11	COIL (AM-MIX)	
T3	1-431-243-11	TRANSFORMER, DC-DC CONVERTER	
T4	1-406-404-11	COIL (MW OSCILATION)	
		< VIBRATOR >	
X1	1-760-423-11	VIBRATOR, CRYSTAL 75kHz	
X2	1-579-063-21	VIBRATOR, CERAMIC 4.19MHz	

****

MISCELLANEOUS
****

4	1-665-407-11	PC BOARD, FLEXIBLE	
18	1-571-099-21	SWITCH (1 KEY)	
104	1-690-530-21	LEAD (WITH CONNECTOR)	
109	1-660-965-11	PC BOARD, SLIDE FLEXIBLE	
L7	1-416-164-11	COIL, FERRITE ROD ANTENNA	
M901	A-3304-989-A	MOTOR ASSY, TURN TABLE	
M902	A-3303-403-A	MOTOR ASSY, SLED	

****

ACCESSORIES & PACKING MATERIALS
****

⚠	1-467-007-21	ADAPTOR, AC (AC-E455) (AUS)	
⚠	1-467-009-11	ADAPTOR, AC (AC-E455)	(E92/T401, T405:US, CND)
⚠	1-467-012-11	ADAPTOR, AC (AC-E455) (T101:EA)	
⚠	1-467-550-11	ADAPTOR, AC (AC-E455A) (E33/T405:JEW)	
⚠	1-473-115-11	ADAPTOR, AC (AC-E455D) (UK/T405:IT)	
⚠	1-473-116-31	ADAPTOR, AC (AC-E455D) (AEP, IT, E13, CN)	
	1-528-444-11	BATTERY PACK (BP-DM10)	(T405:CND, E13, E33, E92, AUS, CN)
	1-528-444-31	BATTERY PACK (BP-DM10) (T405:US)	
	1-528-444-81	BATTERY PACK (BP-DM10)	(T405:AEP, IT, UK, JEW)
	1-559-906-32	CORD, CONNECTION	(CND,E13,E33,E92,AUS,CN/T401,T405:US)
	1-569-007-11	ADAPTOR, CONVERSION 2P (E33/T405:JEW)	
	1-569-008-11	ADAPTOR, CONVERSION 2P (E13/T101:EA)	
	1-569-008-21	ADAPTOR, CONVERSION 2P (E13,CN/T101:EA)	
	1-751-419-11	CORD, CONNECTION	(CND, E13, E33, E92, AUS, CN/T401,T405:US)
	1-759-042-21	BATTERY CASE (T405:EXCEPT US, CND)	
	1-769-723-11	CORD, CONNECTION	(E1CND,3,E33,E92,AUS,CN/T401,T405:US)
	3-860-092-11	MANUAL, INSTRUCTION (T101:AEP)(SPANISH)	
	3-860-092-21	MANUAL, INSTRUCTION	(T101:AEP,UK,EA) (ENGLISH)
	3-860-092-31	MANUAL, INSTRUCTION (T101:AEP) (FRENCH)	
	3-860-092-41	MANUAL, INSTRUCTION (T101:AEP) (DUTCH)	
	3-860-092-51	MANUAL, INSTRUCTION (T101:AEP)	(SWEDISH)
	3-860-092-61	MANUAL, INSTRUCTION (T101:AEP)	(PORTUGUESE)
	3-860-092-71	MANUAL, INSTRUCTION (T101:AEP)(GERMAN)	
	3-860-092-81	MANUAL, INSTRUCTION (T101:AEP, IT)	(ITALIAN)
	3-860-093-11	MANUAL, INSTRUCTION (T101:E13, CN)	(CHINESE)
	3-860-093-21	MANUAL, INSTRUCTION (T101:E13, CN)	(ENGLISH)
	3-860-094-11	MANUAL, INSTRUCTION (T401:AEP)(SPANISH)	
	3-860-094-21	MANUAL, INSTRUCTION (T401:AEP,UK)	(ENGLISH)
	3-860-094-31	MANUAL, INSTRUCTION (T401:AEP) (FRENCH)	
	3-860-094-41	MANUAL, INSTRUCTION (T401:AEP) (DUTCH)	
	3-860-094-51	MANUAL, INSTRUCTION (T401:AEP)	(SWEDISH)
	3-860-094-61	MANUAL, INSTRUCTION (T401:AEP)	(PORTUGUESE)
	3-860-094-71	MANUAL, INSTRUCTION (T401:AEP)(GERMAN)	
	3-860-094-81	MANUAL, INSTRUCTION (T401:AEP,IT)	(ITALIAN)
	3-860-095-11	MANUAL, INSTRUCTION (T401:E13,CN)	(CHINISE)
	3-860-095-21	MANUAL, INSTRUCTION (T401:E13,CN)	(ENGLISH)
	3-860-096-01	MANUAL, INSTRUCTION (T405:JEW)	(JAPANESE) (ENGLISH)
	3-860-096-11	MANUAL, INSTRUCTION (T405:E33,E92,JEW)	(SPANISH)
	3-860-096-21	MANUAL, INSTRUCTION	(T405:US, CND, E33, E92, AUS, JEW) (ENGLISH)
	3-860-096-31	MANUAL, INSTRUCTION (T405:CND, JEW)	(FRENCH)
	3-860-096-41	MANUAL, INSTRUCTION (T405:JEW)	(CHINESE)
	3-860-096-51	MANUAL, INSTRUCTION (T405:JEW)	(KOREAN)
	3-860-097-11	MANUAL, INSTRUCTION (T405:E13,CN)	(CHINESE)
	3-860-097-21	MANUAL, INSTRUCTION (T405:E13,CN)	(ENGLISH)
	3-860-100-11	MANUAL, INSTRUCTION (T405:AEP)	(SPANISH)
	3-860-100-21	MANUAL, INSTRUCTION (T405:AEP, IT, UK)	(ENGLISH)
	3-860-100-31	MANUAL, INSTRUCTION (T405:AEP) (FRENCH)	
	3-860-100-41	MANUAL, INSTRUCTION (T405:AEP) (DUTCH)	
	3-860-100-51	MANUAL, INSTRUCTION (T405:AEP)	(SWEDISH)
	3-860-100-61	MANUAL, INSTRUCTION (T405:AEP)	(PORTUGUESE)
	3-860-100-71	MANUAL, INSTRUCTION (T405:AEP)(GERMAN)	
	3-860-100-81	MANUAL, INSTRUCTION (T405:AEP, IT)	(ITALIAN)
	3-860-101-11	MANUAL, INSTRUCTION (T401:E33, E92)	(SPANISH)
	3-860-101-21	MANUAL, INSTRUCTION	(T401:US, CND, E33, E92, AUS) (ENGLISH)
	3-860-101-31	MANUAL, INSTRUCTION (T401:CND) (FRENCH)	
	3-860-113-11	MANUAL, INSTRUCTION (T101:E33, E92)	

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.	Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

Ref. No.	Part No.	Description	Remarks
			(SPANISH)
	3-860-113-21	MANUAL, INSTRUCTION (T101:E33, E92, AUS)	
			(ENGLISH)
	4-985-631-01	CASE, CARRYING (T405)	
*	4-985-695-01	CUSHION (EXCEPT US,CND)	
	4-990-923-01	CARD BOARD (T401:US)	
	8-917-594-90	REMOCON,SONY WIRED RM-DM23T	
			(T405:EXCEPT US)
	8-953-342-93	HEADPHONE MDR-24/K1 SET (T401,T405:US)	
	8-953-537-90	HEADPHONE MDR-E741MP//K3 SET	
			(T405:EXCEPT US)
	8-953-538-90	HEADPHONE MDR-E741//K2 SET	
			(T101/T401:EXCEPT US)

Ref. No.	Part No.	Description	Remarks

- Abbreviation
  E13 : 220-230V (No charger switch) area
  E33 : 100-240V (Without VS) area
  E92 : 120V area
  AUS : Australian
  CND : Canadian
  CN : Chinese
  EA : Saudi Arabia

9-923-240-11

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Personal A&V Products Company

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(Shibaura)

D-T101/T401/T405

SONY

SERVICE MANUAL

US Model
Canadian Model
D-T401/T405
AEP Model
UK Model
E Model
Chinese Model
Australian Model
D-T101/T401/T405
Tourist Model
D-T405

SUPPLEMENT-1

File this supplement with the Service Manual.

Subject : 1. Printed wiring board suffix change
TUNER BOARD –11 → –13
CD BOARD –11 → –12
ESP BOARD –11 → –12
2. French model, Hong Kong model are added.

Laser component in this product is capable of emitting radiation exceeding the limit for Class 1.

CLASS 1 LASER PRODUCT
LUOKAN 1 LASERLAITE
KLASS 1 LASERAPPARAT

This appliance is classified as a CLASS 1 LASER product. The CLASS 1 LASER PRODUCT MARKING is located on the rear exterior.

The following caution label is located inside the unit.

CAUTION	;	INVISIBLE LASER RADIATION WHEN OPEN. AVOID EXPOSURE TO BEAM.
ADVARSEL	;	USYNLIG LASERSTRÅLING VED ÅBNING NÅR SIKKERHEDSAFBRYDERE ER UDE AF FUNKTION. UNDGÅ UDS ÆTTELSE FOR STRÅLING.
VARO!	;	AVATTAESSA JA SUOJALUKITUS OHITETTAESSA OLET ALTTIINA LASERSÄTEILYLLE.
VARNING	;	LASERSTRÅLING NÄR DENNA DEL ÄR OPPNÅD OCH SPÄRREN ÄR URXOPPLAD.
ADVARSEL	;	USYNLIG LASERSTRÅLING NÅR DEKSEL ÅPNES UNNGÅ EKSPONERING FOR STRÅLEN.

CAUTION
Use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.

SAFETY-RELATED COMPONENT WARNING!!

COMPONENTS IDENTIFIED BY MARK ⚠ OR DOTTED LINE WITH MARK ⚠ ON THE SCHEMATIC DIAGRAMS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.

ATTENTION AU COMPOSANT AYANT RAPPORT À LA SÉCURITÉ!
LES COMPOSANTS IDENTIFÉS PAR UNE MARQUE ⚠ SUR LES DIAGRAMMES SCHÉMATIQUES ET LA LISTE DES PIÈCES SONT CRITIQUES POUR LA SÉCURITÉ DE FONCTIONNEMENT. NE REMPLACER CES COMPOSANTS QUE PAR DES PIÈSES SONY DONT LES NUMÉROS SONT DONNÉS DANS CE MANUEL OU DANS LES SUPPÉMENTS PUBLIÉS PAR SONY.

Notes on chip component replacement

- Never reuse a disconnected chip component.
- Notice that the minus side of a tantalum capacitor may be damaged by heat.

Flexible Circuit Board Repairing

- Keep the temperature of soldering iron around 270˚C during repairing.
- Do not touch the soldering iron on the same conductor of the circuit board (within 3 times).
- Be careful not to apply force on the conductor when soldering or unsoldering.

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SERVICE NOTE

NOTES ON HANDLING THE OPTICAL PICK-UP BLOCK OR BASE UNIT

The laser diode in the optical pick-up block may suffer electrostatic breakdown because of the potential difference generated by the charged electrostatic load, etc. on clothing and the human body.
During repair, pay attention to electrostatic breakdown and also use the procedure in the printed matter which is included in the repair parts.
The flexible board is easily damaged and should be handled with care.

NOTES ON LASER DIODE EMISSION CHECK

The laser beam on this model is concentrated so as to be focused on the disc reflective surface by the objective lens in the optical pick-up block. Therefore, when checking the laser diode emission, observe from more than 30 cm away from the objective lens.

Before Replacing the Optical Pick-Up Block

Please be sure to check thoroughly the parameters as par the "Optical Pick-Up Block Checking Procedures" (Part No.:9-960-027-11) issued separately before replacing the optical pick-up block.
Note and specifications required to check are given below.

- FOK output: IC501⑫ pin
  When checking FOK, remove the lead wire to disk motor.
- S curve P-to-P value: 1.0-2.8Vp-p IC501㉛pin
  When checking S curve P-to-P value, remove the lead wire to disc motor.
- RF signal P-to-P value: 0.8-1.2Vp-p
- Traverse signal P-to-P value: 1.2Vp-p
- The repairing grating holder is impossible.

Precautions for Checking Emission of Laser Diode

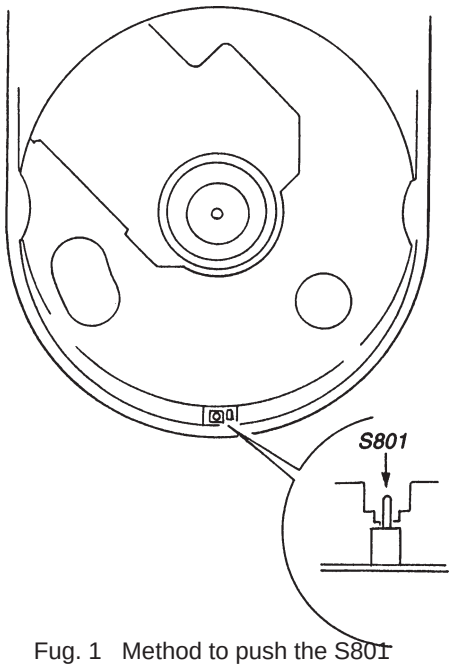
Laser light of the equipment is focused by the object lens in the optical pick-up so that the light focuses on the reflection surface of the disc. Therefore, be sure to keep your eyes more then 30 cm apart from the object lens when you check the emission of laser diode.

Laser Diode Checking Methods

During normal operation of the equipment, emission of the laser diode is prohibited unless the upper panel is closed while turning ON the S801 (push switch type).
The following two checking methods for the laser diode are operable.

- **Method (In the service mode or normal operation): Emission of the laser diode is visually checked.**

1. Open the upper lid.
2. Push the S801 as shown in Fig. 1.
3. Check the object lens for confirming normal emission of the laser diode. If not emitting, there is a trouble in the automatic power control circuit or the optical pick-up.
   During normal operation, the laser diode is turned ON about 2.5 seconds for focus searching.



Fug. 1 Method to push the S801

EXPLODED VIEWS

NOTE:
- -XX, -X mean standardized parts, so they may have some differences from the original one.
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- The mechanical parts with no reference number in the exploded views are not supplied.
- Hardware (# mark) list and accessories and packing materials are given in the last of this parts list.

- Abbreviation

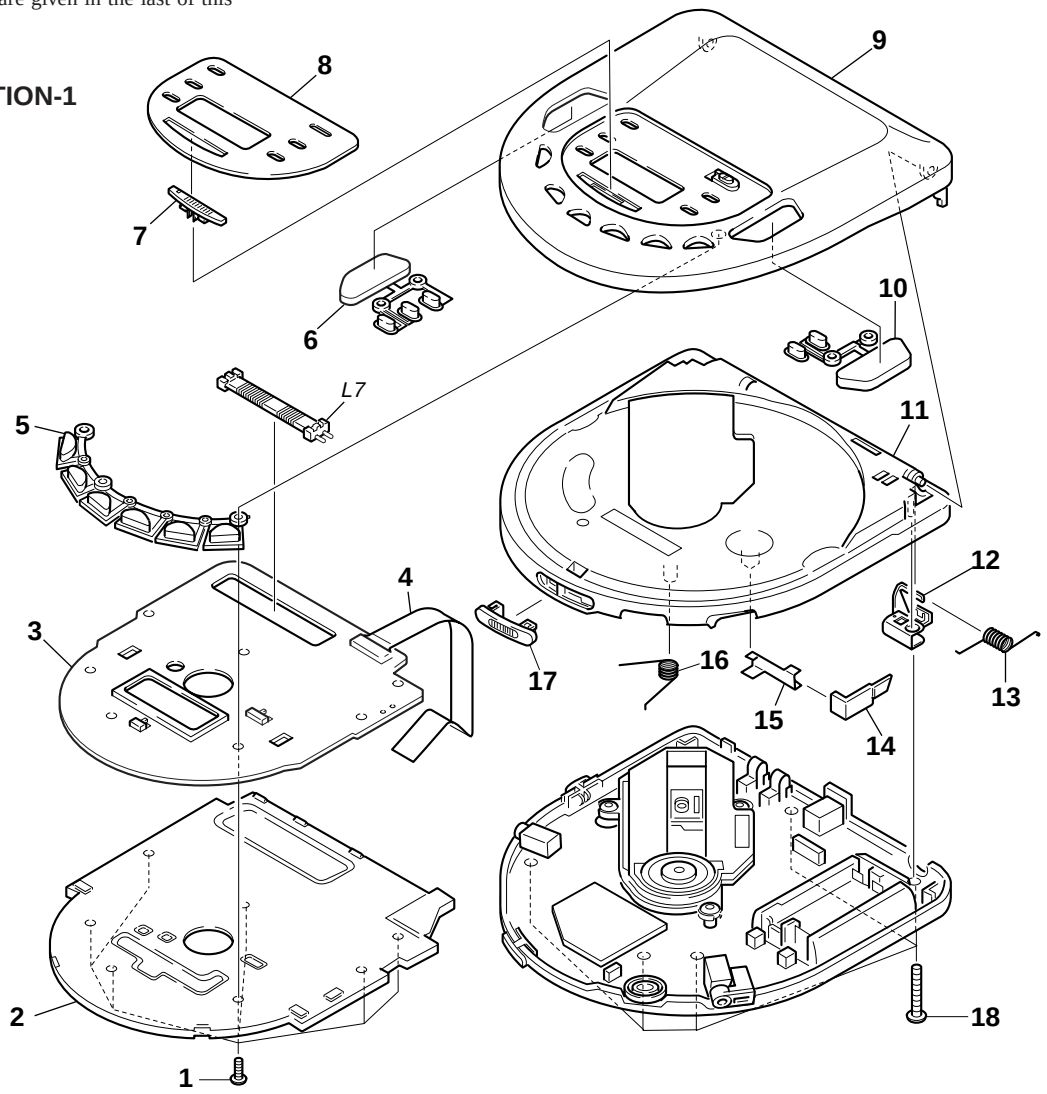
E13	: 220-230V (No charger switch) area		
E33	: 100-240V (Without VS) area		
E92	: 120V area		
AUS	: Australian	CND	: Canadian
CN	: Chinese	EA	: Saudi Arabia
FR	: French	HK	: Hong Kong
IT	: Itarian	JEW	: Tourist

When indicating parts by reference number, please include the board name.

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.

Les composants identifiés par une marque ⚠ sont critiques pour la sécurité.
Ne les remplacer que par une pièce portant le numéro spécifié.

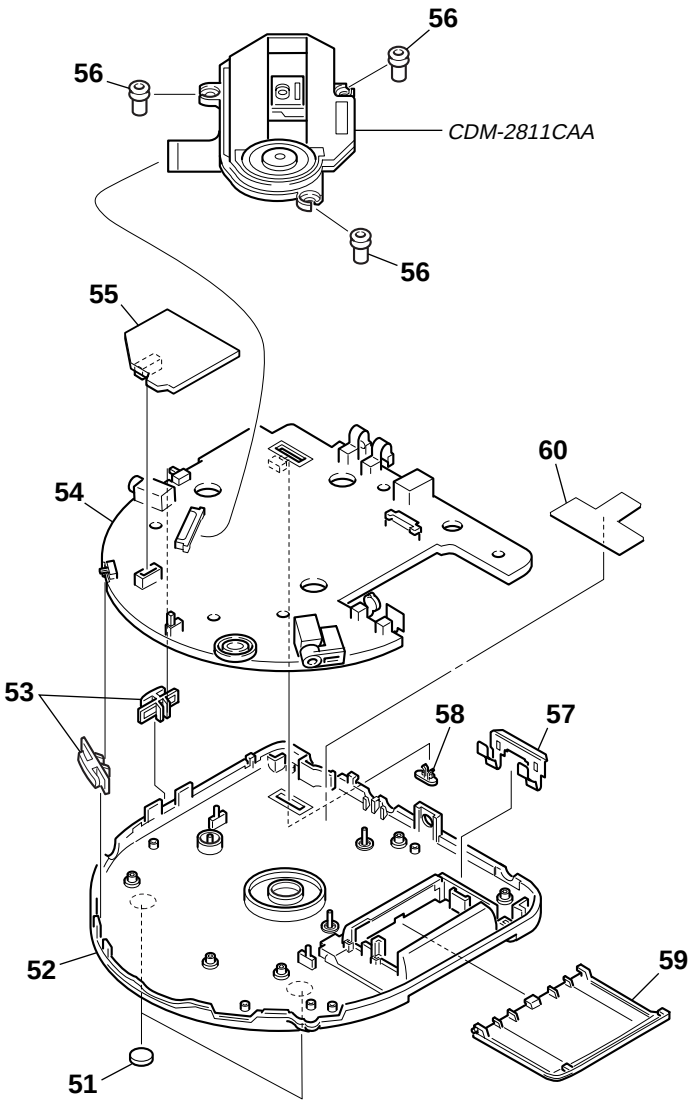
CABINET SECTION-1



Ref. No.	Part No.	Description	Remarks
1	4-991-484-01	SCREW (1.7)	
2	4-989-979-01	COVER, LID	
3	A-3293-386-A	TUNER BOARD, COMPLETE (AEP, IT, UK, EA, FR)	
3	A-3293-385-A	TUNER BOARD, COMPLETE (E13, E33, E92, CN, AUS, US, CND, HK)	
3	A-3293-384-A	TUNER BOARD, COMPLETE (JEW)	
4	1-665-407-11	PC BOARD, FLEXIBLE	
5	4-989-976-11	BUTTON (R) (T101)	
5	4-989-976-01	BUTTON (R) (T401, T405)	
6	4-989-975-11	BUTTON (FF) (T101)	
6	4-989-975-01	BUTTON (FF) (T401, T405)	
7	4-989-977-01	KNOB (CR) (T401, T405)	
7	4-989-977-11	KNOB (CR) (T101)	
8	X-4949-010-1	WINDOW (LCD) ASSY (T405)	
8	X-4949-012-1	WINDOW (LCD) ASSY (T401)	
8	X-4949-013-1	WINDOW (LCD) ASSY (T101)	

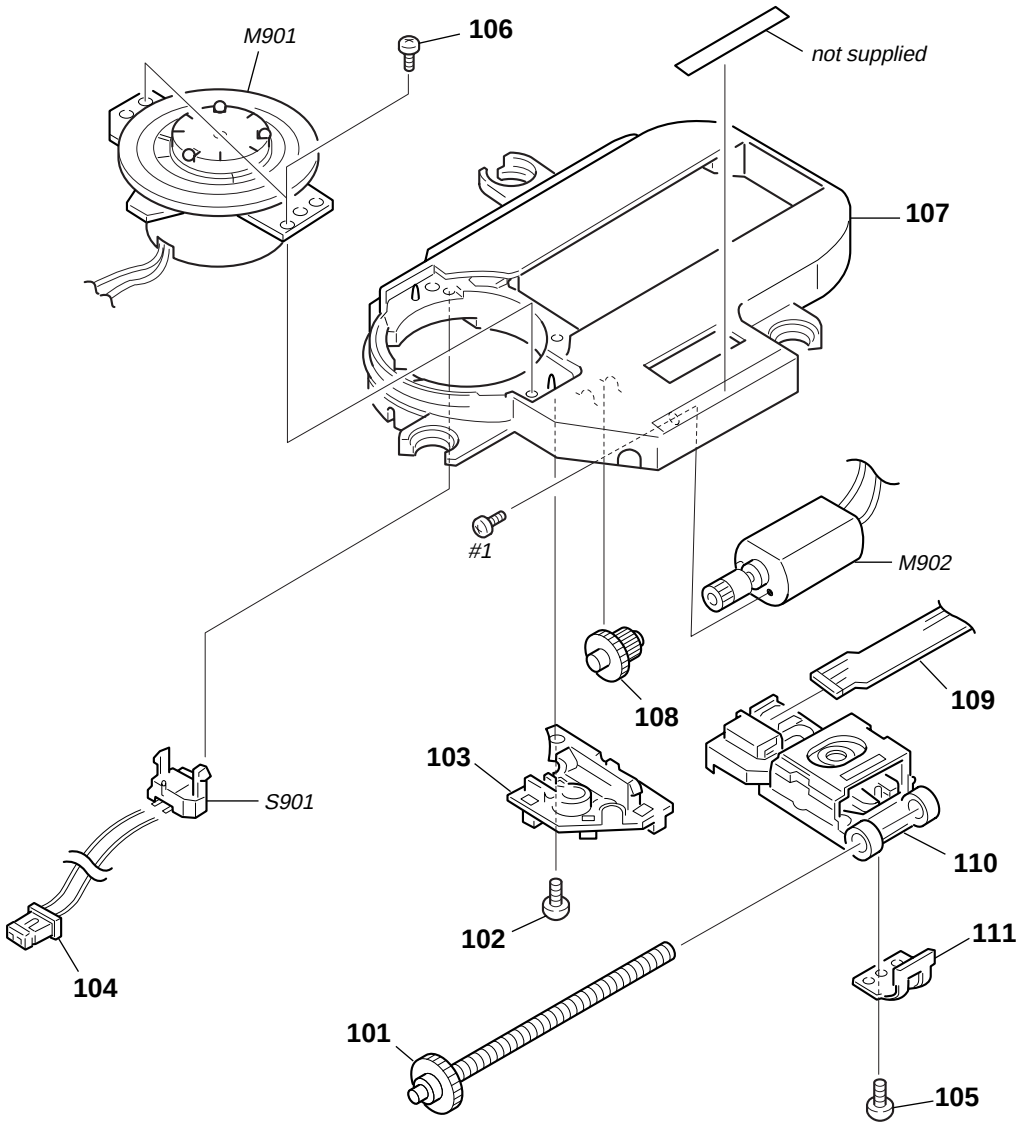
Ref. No.	Part No.	Description	Remarks
9	A-3311-573-A	LID SUB ASSY, UPPER (T401)	
9	A-3311-564-A	LID SUB ASSY, UPPER (T101)	
9	A-3311-558-A	LID SUB ASSY, UPPER (T405)	
10	4-989-974-01	BUTTON (PLAY) (T401, T405)	
10	4-989-974-11	BUTTON (PLAY) (T101)	
11	4-984-737-11	CABINET (UPPER) (T101, T401)	
11	4-984-737-01	CABINET (UPPER) (T405)	
12	4-984-848-01	BRACKET (SPRING)	
13	4-989-980-01	SPRING, TORSION	
14	4-965-547-01	SEPARATOR	
15	4-965-548-01	SPRING (D)	
16	4-984-847-01	SPRING, TORSION	
17	4-984-748-01	KNOB (OPEN)	
18	3-336-395-01	SCREW (B2X10) (G), TAPPING	
L7	1-416-164-11	COIL, FERRITE-ROD ANTENNA	

CABINET SECTION-2



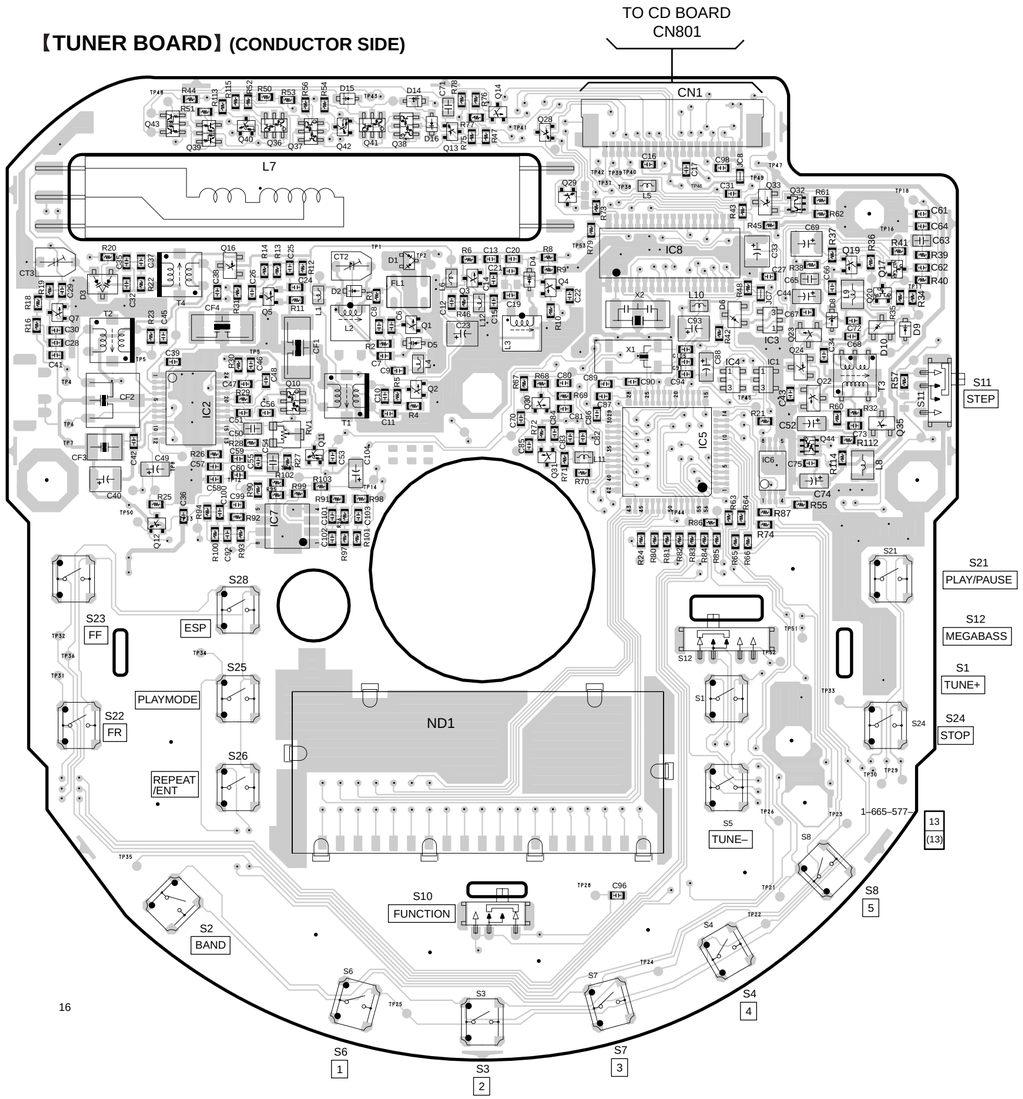
Ref. No.	Part No.	Description	Remarks
51	4-966-278-01	FOOT, RUBBER	
52	4-984-749-01	CABINET (LOWER)	
53	4-984-747-01	KNOB (H-R)	
54	A-3321-196-A	CD MOUNTED BOARD, COMPLETE (T405: FR)	
54	A-3306-402-A	CD MOUNTED BOARD, COMPLETE (T401)	
54	A-3306-399-A	CD MOUNTED BOARD, COMPLETE(T101)	
54	A-3306-391-A	CD MOUNTED BOARD, COMPLETE (T405: EXCEPT FR)	
55	A-3306-405-A	ESP MOUNTED BOARD, COMPLETE (T401)	
55	A-3306-394-A	ESP MOUNTED BOARD, COMPLETE (T405)	
56	4-975-811-01	INSULATOR	
57	4-978-696-01	TERMINAL BOARD (RELAY),BATTERY	
58	4-984-751-01	KNOB (AVLS)	
59	4-984-750-01	LID, BATTERY CASE	
* 60	4-990-118-02	SHEET, RADIATION	

OPTICAL PICK-UP SECTION
(CDM-2811CAA)

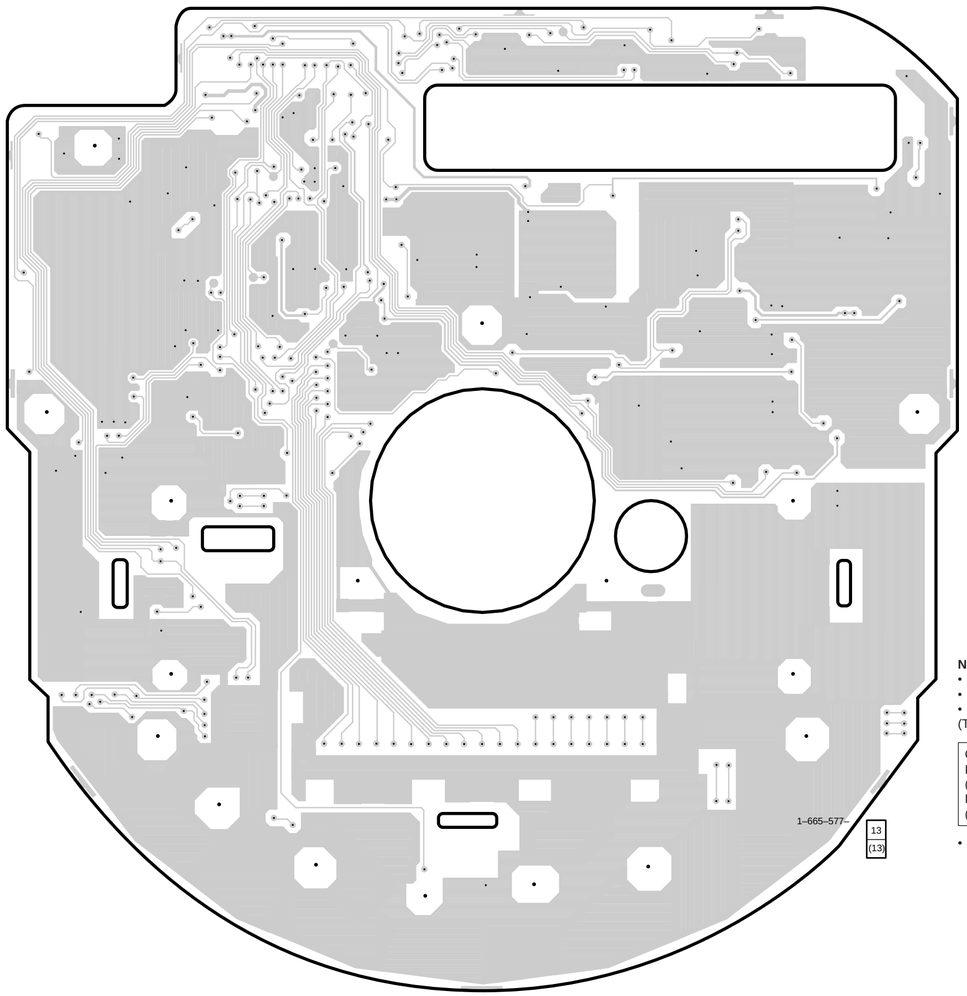


Ref. No.	Part No.	Description	Remarks
101	A-3303-970-A	SCREW ASSY, FEED	
102	3-318-203-11	SCREW (B1.7), TAPPING	
103	4-972-163-04	SPRING, SLED	
104	1-690-530-81	LEAD (WITH CONNECTOR)	
105	4-973-631-01	SCREW	
106	3-719-401-11	SCREW (B1.7), TAPPING	
* 107	4-984-320-01	CHASSIS	
108	4-974-003-01	GEAR (B)	
109	1-660-965-11	PC BOARD, SLIDE FLEXIBLE	
⚠ 110	X-4947-828-1	OPTICAL PICK-UP (DAX-01C)	
111	4-972-165-01	RACK	
M901	A-3304-989-A	MOTOR ASSY, TURN TABLE	
M902	A-3303-403-A	MOTOR ASSY, SLED	
S901	1-571-099-21	SWITCH (1 KEY)	

【TUNER BOARD】(CONDUCTOR SIDE)



【TUNER BOARD】(COMPONENT SIDE)



• **Semiconductor Location**

Ref. No.	Location	Ref. No.	Location
D1	C-4	Q10	D-3
D2	C-4	Q11	E-3
D3	C-2	Q12	E-2
D4	C-5	Q13	B-4
D5	D-4	Q14	B-5
D6	C-7	Q16	C-3
D8	C-8	Q17	C-8
D9	D-8	Q19	C-8
D10	D-8	Q20	C-8
D14	B-4	Q22	D-7
D15	B-4	Q23	D-7
D16	B-4	Q24	D-7
		Q28	B-5
IC1	D-7	Q29	B-5
IC2	D-2	Q30	D-5
IC3	C-7	Q31	E-5
IC4	D-7	Q32	B-7
IC5	E-6	Q33	B-7
IC6	E-7	Q35	D-8
IC7	E-3	Q36	B-3
IC8	C-7	Q37	B-3
		Q38	B-4
Q1	D-4	Q39	B-2
Q2	D-4	Q40	B-3
Q3	C-5	Q41	B-4
Q4	C-5	Q42	B-4
Q5	C-3	Q43	B-2
Q7	C-1	Q44	E-7

Note on Printed wiring Board:
- ○——— : parts extracted from the component side.
- ● : Through hole.
- ▒▒▒ : Pattern from the side which enables seeing.

(The other layers' patterns are not indicated.)

Caution:
Pattern face side: (Conductor Side) Parts on the pattern face side seen from the pattern face are indicated.
Parts face side: (Component Side) Parts on the parts face side seen from the parts face are indicated.

• Abbreviation
E13 : 220-230V (No charger switch) area
E33 : 100-240V (Without VS) area
E92 : 120V area
AUS : Australian
CND : Canadian
CN : Chinese
EA : Saudi Arabia
FR : French
HK : Hong Kong
IT : Itarian
JEW : Tourist

CD

ELECTRICAL PARTS LIST

NOTE:

When indicating parts by reference number, please include the board name.

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.

Les composants identifiés par une marque ⚠ sont critiques pour la sécurité.
Ne les remplacer que par une pièce portant le numéro spécifié.

- Abbreviation
  E13 : 220-230V (No charger switch) area
  E33 : 100-240V (Without VS) area
  E92 : 120V area
  AUS : Australian CND : Canadian
  CN : Chinese EA : Saudi Arabia
  FR : French HK : Hong Kong
  IT : Itarian JEW : Tourist
- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.
- -XX, -X mean standardized parts, so they may have some difference from the original one.
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- CAPACITORS:
  uF: µF
- RESISTORS
  All resistors are in ohms.
  METAL: metal-film resistor
  METAL OXIDE: Metal Oxide-film resistor
  F: nonflammable
- COILS
  uH: µH
- SEMICONDUCTORS
  In each case, u: µ, for example:
  uA...: µA... , uPA... , µPA... , uPB... , µPB... , uPC... , µPC... , uPD..., µPD...

Ref. No.	Part No.	Description			Remarks
	A-3306-391-A	CD BOARD, COMPLETE (T405: EXCEPT FR)			
		**********			
	A-3306-399-A	CD BOARD, COMPLETE (T101)			
		**********			
	A-3306-402-A	CD BOARD, COMPLETE (T401)			
		**********			
	A-3321-196-A	CD BOARD, COMPLETE (T405: FR)			
		**********			
	4-984-850-01	TERMINAL BOARD (BATTERY CASE)			
	4-984-851-01	TERMINAL BOARD, BATTERY			
	4-978-695-01	PLATE, TERMINAL, BATTERY			
		< CAPACITOR >			
C101	1-135-181-21	TANTALUM CHIP	4.7uF	20%	6.3V
C103	1-164-346-11	CERAMIC CHIP	1uF		16V
C104	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C105	1-164-489-11	CERAMIC CHIP	0.22uF	10%	16V
C106	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C107	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C201	1-135-181-21	TANTALUM CHIP	4.7uF	20%	6.3V
C203	1-164-346-11	CERAMIC CHIP	1uF		16V
C204	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C205	1-164-489-11	CERAMIC CHIP	0.22uF	10%	16V
C206	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C207	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C301	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C302	1-163-038-11	CERAMIC CHIP	0.1uF		25V
C303	1-163-038-11	CERAMIC CHIP	0.1uF		25V
C304	1-126-246-11	ELECT CHIP	220uF	20%	4V
C305	1-135-201-11	TANTALUM CHIP	10uF	20%	4V
C306	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C307	1-162-919-11	CERAMIC CHIP	22PF	5%	50V
C308	1-162-919-11	CERAMIC CHIP	22PF	5%	50V
C309	1-135-181-21	TANTALUM CHIP	4.7uF	20%	6.3V
C310	1-164-346-11	CERAMIC CHIP	1uF		16V
C311	1-135-201-11	TANTALUM CHIP	10uF	20%	4V
C312	1-164-346-11	CERAMIC CHIP	1uF		16V
C313	1-164-506-11	CERAMIC CHIP	4.7uF		16V
C314	1-164-346-11	CERAMIC CHIP	1uF		16V
C315	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C316	1-164-346-11	CERAMIC CHIP	1uF		16V
C317	1-115-565-11	CERAMIC CHIP	2.2uF	10%	10V
C318	1-164-156-11	CERAMIC CHIP	0.1uF		25V

Ref. No.	Part No.	Description			Remarks
C319	1-115-565-11	CERAMIC CHIP	2.2uF	10%	10V
C320	1-107-686-11	TANTAL. CHIP	4.7uF	20%	16V
C321	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C323	1-163-038-11	CERAMIC CHIP	0.1uF		25V
C325	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C328	1-115-156-11	CERAMIC CHIP	1uF		10V
C330	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C333	1-164-315-11	CERAMIC CHIP	470PF	5%	50V
C334	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C335	1-109-982-11	CERAMIC CHIP	1uF	10%	10V
C399	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C401	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C402	1-126-607-11	ELECT CHIP	47uF	20%	4V
C403	1-113-682-11	TANTAL. CHIP	33uF	20%	10V
C404	1-164-816-11	CERAMIC CHIP	220PF	2%	50V
C405	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C406	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C407	1-135-181-21	TANTALUM CHIP	4.7uF	20%	6.3V
C408	1-164-346-11	CERAMIC CHIP	1uF		16V
C409	1-126-395-11	ELECT	22uF	20%	16V
C410	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C411	1-126-395-11	ELECT	22uF	20%	16V
C412	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C413	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C414	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C415	1-165-176-11	CERAMIC CHIP	0.047uF	10%	16V
C416	1-104-913-11	TANTAL. CHIP	10uF	20%	16V
C417	1-110-569-11	TANTAL. CHIP	47uF	20%	6.3V
C418	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C419	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C420	1-164-346-11	CERAMIC CHIP	1uF		16V
C421	1-164-227-11	CERAMIC CHIP	0.022uF	10%	25V
C422	1-110-569-11	TANTAL. CHIP	47uF	20%	6.3V
C423	1-109-982-11	CERAMIC CHIP	1uF	10%	10V
C424	1-113-682-11	TANTAL. CHIP	33uF	20%	10V
C425	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C426	1-162-923-11	CERAMIC CHIP	47PF	5%	50V
C427	1-127-510-00	ELECT	4.7uF	20%	25V
C428	1-126-205-11	ELECT CHIP	47uF	20%	6.3V
C430	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C431	1-164-346-11	CERAMIC CHIP	1uF		16V
C432	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C434	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C435	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C437	1-164-505-11	CERAMIC CHIP	2.2uF		16V

CD

Ref. No.	Part No.	Description			Remarks
C439	1-104-914-11	TANTAL. CHIP	22uF	20%	16V
C440	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C441	1-164-346-11	CERAMIC CHIP	1uF		16V
C442	1-164-346-11	CERAMIC CHIP	1uF		16V
C443	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C444	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C445	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C446	1-104-851-11	TANTAL. CHIP	10uF	20%	10V
C447	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C490	1-164-227-11	CERAMIC CHIP	0.022uF	10%	25V
C491	1-164-227-11	CERAMIC CHIP	0.022uF	10%	25V
C501	1-162-921-11	CERAMIC CHIP	33PF	5%	50V (T101)
C501	1-162-913-11	CERAMIC CHIP	8PF	0.5PF	50V (T401, T405)
C502	1-162-920-11	CERAMIC CHIP	27PF	5%	50V (T401, T405)
C503	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C504	1-164-315-11	CERAMIC CHIP	470PF	5%	50V
C505	1-162-967-11	CERAMIC CHIP	0.0033uF	10%	50V
C506	1-115-565-11	CERAMIC CHIP	2.2uF	10%	10V
C507	1-135-259-11	TANTAL. CHIP	10uF	20%	6.3V
C509	1-109-982-11	CERAMIC CHIP	1uF	10%	10V
C510	1-109-982-11	CERAMIC CHIP	1uF	10%	10V
C513	1-165-176-11	CERAMIC CHIP	0.047uF	10%	16V
C514	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C515	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C516	1-126-246-11	ELECT CHIP	220uF	20%	4V
C517	1-110-569-11	TANTAL. CHIP	47uF	20%	6.3V
C518	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V
C519	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V
C520	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C521	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V
C522	1-164-492-11	CERAMIC CHIP	0.15uF	10%	16V
C523	1-115-565-11	CERAMIC CHIP	2.2uF	10%	10V
C524	1-135-201-11	TANTALUM CHIP	10uF	20%	4V
C525	1-110-569-11	TANTAL. CHIP	47uF	20%	6.3V
C526	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C527	1-164-489-11	CERAMIC CHIP	0.22uF	10%	16V
C528	1-163-038-11	CERAMIC CHIP	0.1uF		25V
C529	1-110-569-11	TANTAL. CHIP	47uF	20%	6.3V
C530	1-109-982-11	CERAMIC CHIP	1uF	10%	10V
C531	1-109-982-11	CERAMIC CHIP	1uF	10%	10V
C532	1-109-982-11	CERAMIC CHIP	1uF	10%	10V
C534	1-162-921-11	CERAMIC CHIP	33PF	5%	50V
C535	1-162-915-11	CERAMIC CHIP	10PF	0.5PF	50V
C536	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C537	1-104-852-11	TANTAL. CHIP	22uF	20%	10V
C538	1-164-489-11	CERAMIC CHIP	0.22uF	10%	16V
C539	1-110-501-11	CERAMIC CHIP	0.33uF	10%	16V
C540	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C541	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C542	1-115-156-11	CERAMIC CHIP	1uF		10V
C543	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C544	1-164-816-11	CERAMIC CHIP	220PF	2%	50V
C545	1-164-816-11	CERAMIC CHIP	220PF	2%	50V
C546	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C547	1-164-315-11	CERAMIC CHIP	470PF	5%	50V
C548	1-164-315-11	CERAMIC CHIP	470PF	5%	50V
C549	1-164-315-11	CERAMIC CHIP	470PF	5%	50V
C550	1-164-315-11	CERAMIC CHIP	470PF	5%	50V
C552	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C558	1-163-038-11	CERAMIC CHIP	0.1uF		25V
C559	1-109-982-11	CERAMIC CHIP	1uF	10%	10V
C560	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C561	1-107-686-11	TANTAL. CHIP	4.7uF	20%	16V
C562	1-107-686-11	TANTAL. CHIP	4.7uF	20%	16V
C563	1-164-315-11	CERAMIC CHIP	470PF	5%	50V
C564	1-109-982-11	CERAMIC CHIP	1uF	10%	10V
C565	1-163-038-11	CERAMIC CHIP	0.1uF		25V
C566	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C569	1-164-227-11	CERAMIC CHIP	0.022uF	10%	25V
C604	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V (T401, T405)
C611	1-104-847-11	TANTAL. CHIP	22uF	20%	4V
C613	1-107-686-11	TANTAL. CHIP	4.7uF	20%	16V (T405)
C801	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C802	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C803	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C804	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C805	1-109-982-11	CERAMIC CHIP	1uF	10%	10V
C806	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C807	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C808	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C809	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C811	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C812	1-164-346-11	CERAMIC CHIP	1uF		16V
C815	1-104-851-11	TANTAL. CHIP	10uF	20%	10V
C819	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C820	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C821	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C822	1-165-176-11	CERAMIC CHIP	0.047uF	10%	16V

< CONNECTOR >

Ref. No.	Part No.	Description	Remarks
CN501	1-566-530-11	CONNECTOR, FPC (ZIF) 14P	
* CN502	1-695-320-21	PIN, CONNECTOR (1.5MM)(SMD) 2P	
* CN503	1-695-320-31	PIN, CONNECTOR (1.5MM)(SMD) 2P	
* CN504	1-695-320-51	PIN, CONNECTOR (1.5MM)(SMD) 2P	
CN601	1-766-295-31	CONNECTOR, BOARD TO BOARD 24P	(T401, T405)
CN801	1-766-492-21	CONNECTOR, FFC/FPC (ZIF) 24P	

< DIODE >

Ref. No.	Part No.	Description	Remarks
D101	8-719-039-99	DIODE UMZ8.2T	
D102	8-719-158-15	DIODE RD5.6S-B	
D201	8-719-039-99	DIODE UMZ8.2T	
D202	8-719-158-15	DIODE RD5.6S-B	
D301	8-719-988-78	DIODE SB007W03Q	
D302	8-719-988-78	DIODE SB007W03Q	
D303	8-719-988-62	DIODE 1SS355	
D304	8-719-988-78	DIODE SB007W03Q	
D305	8-719-941-09	DIODE DAP202U	
D306	8-719-988-62	DIODE 1SS355	
D307	8-719-058-24	DIODE RB501V-40TE-17	
D308	8-719-058-24	DIODE RB501V-40TE-17	
D401	8-719-048-98	DIODE RB160L-40TE25	
D402	8-719-048-98	DIODE RB160L-40TE25	
D403	8-719-048-98	DIODE RB160L-40TE25	

Ref. No.	Part No.	Description	Remarks
D404	8-719-988-62	DIODE 1SS355	
D405	8-719-941-09	DIODE DAP202U	
D406	8-719-938-72	DIODE SB01-05CP	
D407	8-719-049-09	DIODE 1SS367-T3SONY	
D410	8-719-988-62	DIODE 1SS355	
D411	8-719-988-78	DIODE SB007W03Q	
D412	8-719-049-09	DIODE 1SS367-T3SONY	
D413	8-719-056-62	DIODE MA793	
D414	8-719-988-62	DIODE 1SS355	
D415	8-719-049-09	DIODE 1SS367-T3SONY	
D416	8-719-058-24	DIODE RB501V-40TE-17	
D418	8-719-049-09	DIODE 1SS367-T3SONY	
D419	8-719-158-15	DIODE RD5.6S-B	
D501	8-719-988-62	DIODE 1SS355	
D601	8-719-024-81	DIODE 1SS300-TE85L (T401, T405)	
D801	8-719-158-15	DIODE RD5.6S-B	
D802	8-719-158-15	DIODE RD5.6S-B	
D803	8-719-941-09	DIODE DAP202U	
D804	8-719-941-09	DIODE DAP202U	
D805	8-719-158-15	DIODE RD5.6S-B	
D811	8-719-158-15	DIODE RD5.6S-B	
D812	8-719-988-62	DIODE 1SS355	
		< FERRITE BEAD >	
FB101	1-414-385-11	INDUCTOR CHIP 0UH	
FB102	1-414-385-11	INDUCTOR CHIP 0UH	
FB201	1-414-385-11	INDUCTOR CHIP 0UH	
FB202	1-414-385-11	INDUCTOR CHIP 0UH	
FB301	1-414-385-11	INDUCTOR CHIP 0UH	
FB305	1-414-385-11	INDUCTOR CHIP 0UH	
FB306	1-414-385-11	INDUCTOR CHIP 0UH	
FB308	1-500-245-11	FERRITE 0UH	
FB501	1-216-295-91	SHORT 0	
FB802	1-414-385-11	INDUCTOR CHIP 0UH	
FB803	1-414-385-11	INDUCTOR CHIP 0UH	
FB805	1-414-385-11	INDUCTOR CHIP 0UH	
		< IC >	
IC101	8-759-062-66	IC TC7S66F	
IC102	8-759-062-66	IC TC7S66F	
IC201	8-759-062-66	IC TC7S66F	
IC202	8-759-062-66	IC TC7S66F	
IC301	8-759-459-18	IC TC9434AFNEL	
IC302	8-759-386-50	IC BA3574BFS	
IC401	8-759-070-30	IC MB3776APNF-G-BND	
IC403	8-759-374-16	IC TLV2362IPW-E05	
IC404	8-759-075-66	IC TA75S01F	
IC405	8-759-075-70	IC TA78S393F	
IC406	8-759-176-73	IC RS5RJ32271-T1	
IC407	8-759-031-84	IC SC7S04F	
IC408	8-759-031-84	IC SC7S04F	
IC409	8-759-234-20	IC TC7S08F	
IC501	8-759-432-83	IC BA6386K	
IC502	8-759-474-74	IC BU9321BKS	
IC504	8-759-453-87	IC SC111250VMEL	
IC505	8-759-075-66	IC TA75S01F	
IC801	8-759-499-09	IC MC68HC05L24-SC440452CFU (EXCEPT FR)	
IC801	8-759-491-58	IC MC68HC05L24SC440442CFU (FR)	

Ref. No.	Part No.	Description	Remarks
		< JACK >	
J301	1-778-633-11	JACK (LINE OUT) (T101, T401)	
J301	8-759-266-40	IC GP1F362T (OPTICAL/LINE OUT) (T405)	
J302	1-580-680-31	JACK (PHONES/REMOTE)	
J401	1-691-099-51	JACK, DC (POLARITY UNIFIED TYPE)	(DC IN 4.5V)
		< JUMPER CHIP >	
JC303	1-414-385-11	INDUCTOR CHIP 0UH	
JC304	1-216-295-91	SHORT 0	
JC501	1-216-864-11	METAL CHIP 0 5% 1/16W	
JC502	1-216-295-91	SHORT 0	
JC503	1-216-295-91	SHORT 0	
JC504	1-216-864-11	METAL CHIP 0 5% 1/16W	
JC510	1-216-864-11	METAL CHIP 0 5% 1/16W	
		< COIL >	
L302	1-412-002-31	INDUCTOR CHIP 4.7uH	
L306	1-412-002-31	INDUCTOR CHIP 4.7uH	
L401	1-414-398-11	INDUCTOR 10uH	
L402	1-414-402-11	INDUCTOR 47uH	
L403	1-414-404-11	INDUCTOR 100uH	
L406	1-414-392-21	INDUCTOR 1uH	
L407	1-414-392-21	INDUCTOR 1uH	
L501	1-414-398-11	INDUCTOR 10uH	
L502	1-414-398-11	INDUCTOR 10uH	
L503	1-414-402-11	INDUCTOR 47uH	
L504	1-414-398-11	INDUCTOR 10uH	
L505	1-414-402-11	INDUCTOR 47uH	
L506	1-414-404-11	INDUCTOR 100uH	
L801	1-412-002-31	INDUCTOR CHIP 4.7uH	
		< TRANSISTOR >	
Q101	8-729-231-74	TRANSISTOR 2SC4116-GL	
Q201	8-729-231-74	TRANSISTOR 2SC4116-GL	
Q301	8-729-320-66	TRANSISTOR 2SD1870	
Q302	8-729-907-39	TRANSISTOR IMD2	
Q303	8-729-028-73	TRANSISTOR DTA114EUA-T106	
Q304	8-729-029-06	TRANSISTOR DTC124EUA-T106	
Q305	8-729-029-14	TRANSISTOR DTC144EUA-T106	
Q306	8-729-029-14	TRANSISTOR DTC144EUA-T106	
Q307	8-729-028-73	TRANSISTOR DTA114EUA-T106	
Q308	8-729-029-06	TRANSISTOR DTC124EUA-T106	
Q309	8-729-028-73	TRANSISTOR DTA114EUA-T106	
Q401	8-729-400-55	TRANSISTOR 2SD1328-S	
Q402	8-729-024-44	TRANSISTOR 2SK2315TYTR	
Q403	8-729-921-93	TRANSISTOR 2SB1182F5-QR	
Q404	8-729-922-10	TRANSISTOR 2SA1577-QR	
Q405	8-729-923-40	TRANSISTOR 2SD1963-T101-R	
Q406	8-729-231-74	TRANSISTOR 2SC4116-GL	
Q407	8-729-231-74	TRANSISTOR 2SC4116-GL	
Q408	8-729-039-84	TRANSISTOR RN2511-TE85R	
Q409	8-729-028-74	TRANSISTOR DTA114TUA-T106	
Q410	8-729-039-84	TRANSISTOR RN2511-TE85R	
Q412	8-729-029-06	TRANSISTOR DTC124EUA-T106	
Q413	8-729-029-06	TRANSISTOR DTC124EUA-T106	
Q414	8-729-028-83	TRANSISTOR DTA124EUA-T106	
Q415	8-729-028-83	TRANSISTOR DTA124EUA-T106	

Ref. No.	Part No.	Description				Remarks
Q420	8-729-024-44	TRANSISTOR	2SK2315TYTR			
Q421	8-729-400-55	TRANSISTOR	2SD1328-S			
Q422	8-729-039-97	TRANSISTOR	2SK2463T100			
Q501	8-729-029-06	TRANSISTOR	DTC124EUA-T106			
Q502	8-729-028-83	TRANSISTOR	DTA124EUA-T106 (T401, T405)			
Q503	8-729-029-06	TRANSISTOR	DTC124EUA-T106 (T401, T405)			
Q504	8-729-029-06	TRANSISTOR	DTC124EUA-T106			
Q507	8-729-907-39	TRANSISTOR	IMD2			
Q515	8-729-028-74	TRANSISTOR	DTA114TUA-T106			
Q516	8-729-028-97	TRANSISTOR	DTC114TUA-T106			
Q517	8-729-028-97	TRANSISTOR	DTC114TUA-T106			
Q519	8-729-028-74	TRANSISTOR	DTA114TUA-T106			
Q601	8-729-029-06	TRANSISTOR	DTC124EUA-T106 (T401, T405)			
Q602	8-729-027-30	TRANSISTOR	DTA123YKA-T146 (T405)			
Q801	8-729-231-74	TRANSISTOR	2SC4116-GL			
Q802	8-729-231-74	TRANSISTOR	2SC4116-GL			
Q803	8-729-402-93	TRANSISTOR	UN5214-TX			
		< RESISTOR >				
R1	1-216-295-91	SHORT	0			
R2	1-216-295-91	SHORT	0			
R3	1-216-295-91	SHORT	0			
R4	1-216-295-91	SHORT	0			
R5	1-216-295-91	SHORT	0			
R101	1-216-813-11	METAL CHIP	220	5%	1/16W	
R102	1-216-849-11	METAL CHIP	220K	5%	1/16W	
R103	1-216-834-11	METAL CHIP	12K	5%	1/16W	(EXCEPT FR)
R103	1-216-841-11	METAL CHIP	47K	5%	1/16W	(FR)
R105	1-216-821-11	METAL CHIP	1K	5%	1/16W	
R106	1-216-789-11	METAL CHIP	2.2	5%	1/16W	
R107	1-216-789-11	METAL CHIP	2.2	5%	1/16W	
R201	1-216-813-11	METAL CHIP	220	5%	1/16W	
R202	1-216-849-11	METAL CHIP	220K	5%	1/16W	
R203	1-216-841-11	METAL CHIP	47K	5%	1/16W	(FR)
R203	1-216-834-11	METAL CHIP	12K	5%	1/16W	(EXCEPT FR)
R205	1-216-821-11	METAL CHIP	1K	5%	1/16W	
R206	1-216-789-11	METAL CHIP	2.2	5%	1/16W	
R207	1-216-789-11	METAL CHIP	2.2	5%	1/16W	
R301	1-216-041-00	METAL CHIP	470	5%	1/10W	
R302	1-216-845-11	METAL CHIP	100K	5%	1/16W	
R304	1-216-805-11	METAL CHIP	47	5%	1/16W	
R305	1-216-864-11	METAL CHIP	0	5%	1/16W	
R306	1-216-809-11	METAL CHIP	100	5%	1/16W	
R307	1-216-864-11	METAL CHIP	0	5%	1/16W	
R308	1-216-864-11	METAL CHIP	0	5%	1/16W	
R309	1-216-857-11	METAL CHIP	1M	5%	1/16W	
R310	1-216-817-11	METAL CHIP	470	5%	1/16W	
R311	1-216-839-11	METAL CHIP	33K	5%	1/16W	
R312	1-216-845-11	METAL CHIP	100K	5%	1/16W	
R313	1-216-837-11	METAL CHIP	22K	5%	1/16W	
R316	1-216-805-11	METAL CHIP	47	5%	1/16W	
R318	1-216-833-11	METAL CHIP	10K	5%	1/16W	
R401	1-218-885-11	RES,CHIP	39K	0.50%	1/16W	
R402	1-218-871-11	RES,CHIP	10K	0.50%	1/16W	

Ref. No.	Part No.	Description				Remarks
R403	1-216-833-11	METAL CHIP	10K	5%	1/16W	
R404	1-216-805-11	METAL CHIP	47	5%	1/16W	
R406	1-216-831-11	METAL CHIP	6.8K	5%	1/16W	
R407	1-216-841-11	METAL CHIP	47K	5%	1/16W	
R408	1-216-833-11	METAL CHIP	10K	5%	1/16W	
R409	1-216-827-11	METAL CHIP	3.3K	5%	1/16W	
R410	1-216-861-11	METAL CHIP	2.2M	5%	1/16W	
R411	1-216-857-11	METAL CHIP	1M	5%	1/16W	
R412	1-216-857-11	METAL CHIP	1M	5%	1/16W	
R413	1-216-859-11	RES,CHIP	1.5M	5%	1/16W	
R414	1-216-841-11	METAL CHIP	47K	5%	1/16W	
R415	1-216-861-11	METAL CHIP	2.2M	5%	1/16W	
R416	1-216-859-11	RES,CHIP	1.5M	5%	1/16W	
R417	1-216-847-11	METAL CHIP	150K	5%	1/16W	
R418	1-216-834-11	METAL CHIP	12K	5%	1/16W	
R419	1-218-887-11	RES,CHIP	47K	0.50%	1/16W	
R420	1-218-887-11	RES,CHIP	47K	0.50%	1/16W	
R421	1-216-847-11	METAL CHIP	150K	5%	1/16W	
R422	1-218-879-11	RES,CHIP	22K	0.50%	1/16W	
R423	1-218-879-11	RES,CHIP	22K	0.50%	1/16W	
R424	1-218-872-11	RES,CHIP	11K	0.50%	1/16W	
R425	1-218-872-11	RES,CHIP	11K	0.50%	1/16W	
R426	1-216-834-11	METAL CHIP	12K	5%	1/16W	
R427	1-216-829-11	METAL CHIP	4.7K	5%	1/16W	
R428	1-216-829-11	METAL CHIP	4.7K	5%	1/16W	
R429	1-216-809-11	METAL CHIP	100	5%	1/16W	
R430	1-217-806-11	RES,CHIP	1	5%	1/8W	
R431	1-217-806-11	RES,CHIP	1	5%	1/8W	
R432	1-216-837-11	METAL CHIP	22K	5%	1/16W	
R433	1-216-831-11	METAL CHIP	6.8K	5%	1/16W	
R436	1-216-833-11	METAL CHIP	10K	5%	1/16W	
R437	1-216-797-11	METAL CHIP	10	5%	1/16W	
R439	1-216-849-11	METAL CHIP	220K	5%	1/16W	
R440	1-216-845-11	METAL CHIP	100K	5%	1/16W	
R441	1-216-861-11	METAL CHIP	2.2M	5%	1/16W	
R442	1-216-843-11	METAL CHIP	68K	5%	1/16W	
R443	1-216-833-11	METAL CHIP	10K	5%	1/16W	
R444	1-216-833-11	METAL CHIP	10K	5%	1/16W	
R447	1-216-845-11	METAL CHIP	100K	5%	1/16W	
R448	1-216-845-11	METAL CHIP	100K	5%	1/16W	
R449	1-216-835-11	METAL CHIP	15K	5%	1/16W	
R450	1-216-857-11	METAL CHIP	1M	5%	1/16W	
R451	1-216-837-11	METAL CHIP	22K	5%	1/16W	
R454	1-216-841-11	METAL CHIP	47K	5%	1/16W	
R455	1-216-821-11	METAL CHIP	1K	5%	1/16W	
R456	1-216-833-11	METAL CHIP	10K	5%	1/16W	
R457	1-216-815-11	METAL CHIP	330	5%	1/16W	
R458	1-216-845-11	METAL CHIP	100K	5%	1/16W	
R459	1-216-845-11	METAL CHIP	100K	5%	1/16W	
R462	1-216-835-11	METAL CHIP	15K	5%	1/16W	
R502	1-216-829-11	METAL CHIP	4.7K	5%	1/16W	
R503	1-216-829-11	METAL CHIP	4.7K	5%	1/16W	
R504	1-216-838-11	METAL CHIP	27K	5%	1/16W	
R505	1-216-829-11	METAL CHIP	4.7K	5%	1/16W	
R506	1-216-833-11	METAL CHIP	10K	5%	1/16W	

CD

Ref. No.	Part No.	Description			Remarks
R508	1-216-829-11	METAL CHIP	4.7K	5%	1/16W
R509	1-216-835-11	METAL CHIP	15K	5%	1/16W
R510	1-218-877-11	RES,CHIP	18K	0.50%	1/16W
R511	1-216-833-11	METAL CHIP	10K	5%	1/16W
R513	1-216-821-11	METAL CHIP	1K	5%	1/16W
R514	1-216-845-11	METAL CHIP	100K	5%	1/16W
R518	1-216-833-11	METAL CHIP	10K	5%	1/16W
R519	1-216-831-11	METAL CHIP	6.8K	5%	1/16W
R520	1-218-871-11	RES,CHIP	10K	0.50%	1/16W
R521	1-216-827-11	METAL CHIP	3.3K	5%	1/16W
R522	1-216-857-11	METAL CHIP	1M	5%	1/16W
R523	1-216-832-11	METAL CHIP	8.2K	5%	1/16W
R524	1-218-871-11	RES,CHIP	10K	0.50%	1/16W
R525	1-216-821-11	METAL CHIP	1K	5%	1/16W
R527	1-216-843-11	METAL CHIP	68K	5%	1/16W
R528	1-216-829-11	METAL CHIP	4.7K	5%	1/16W
R529	1-216-837-11	METAL CHIP	22K	5%	1/16W
R530	1-216-815-11	METAL CHIP	330	5%	1/16W
R533	1-216-841-11	METAL CHIP	47K	5%	1/16W
R535	1-216-829-11	METAL CHIP	4.7K	5%	1/16W
R536	1-216-845-11	METAL CHIP	100K	5%	1/16W
R537	1-216-854-11	METAL CHIP	560K	5%	1/16W
R538	1-216-846-11	METAL CHIP	120K	5%	1/16W
R539	1-216-857-11	METAL CHIP	1M	5%	1/16W
R540	1-216-825-11	METAL CHIP	2.2K	5%	1/16W
R541	1-216-843-11	METAL CHIP	68K	5%	1/16W
R542	1-218-879-11	RES,CHIP	22K	0.50%	1/16W
R543	1-216-827-11	METAL CHIP	3.3K	5%	1/16W
R545	1-216-849-11	METAL CHIP	220K	5%	1/16W
R546	1-218-879-11	RES,CHIP	22K	0.50%	1/16W
R547	1-216-825-11	METAL CHIP	2.2K	5%	1/16W
R548	1-216-825-11	METAL CHIP	2.2K	5%	1/16W
R549	1-216-833-11	METAL CHIP	10K	5%	1/16W
R557	1-216-864-11	METAL CHIP	0	5%	1/16W
R567	1-218-871-11	RES,CHIP	10K	0.50%	1/16W
R569	1-216-841-11	METAL CHIP	47K	5%	1/16W
R573	1-216-864-11	METAL CHIP	0	5%	1/16W
R574	1-216-846-11	METAL CHIP	120K	5%	1/16W
R575	1-216-846-11	METAL CHIP	120K	5%	1/16W
R576	1-216-829-11	METAL CHIP	4.7K	5%	1/16W
R578	1-216-845-11	METAL CHIP	100K	5%	1/16W
R603	1-216-833-11	METAL CHIP	10K	5%	1/16W (T401, T405)
R604	1-216-833-11	METAL CHIP	10K	5%	1/16W (T401, T405)
R611	1-216-864-11	METAL CHIP	0	5%	1/16W (T405)
R621	1-216-864-11	METAL CHIP	0	5%	1/16W (T101)
R622	1-216-864-11	METAL CHIP	0	5%	1/16W (T101)
R623	1-216-864-11	METAL CHIP	0	5%	1/16W (T101)
R802	1-216-833-11	METAL CHIP	10K	5%	1/16W
R803	1-216-821-11	METAL CHIP	1K	5%	1/16W
R804	1-216-854-11	METAL CHIP	560K	5%	1/16W
R805	1-216-861-11	METAL CHIP	2.2M	5%	1/16W
R806	1-216-857-11	METAL CHIP	1M	5%	1/16W
R807	1-216-857-11	METAL CHIP	1M	5%	1/16W
R808	1-216-821-11	METAL CHIP	1K	5%	1/16W
R809	1-216-857-11	METAL CHIP	1M	5%	1/16W
R810	1-216-857-11	METAL CHIP	1M	5%	1/16W
R812	1-216-864-11	METAL CHIP	0	5%	1/16W
R822	1-218-883-11	RES,CHIP	33K	0.50%	1/16W
R823	1-216-853-11	METAL CHIP	470K	5%	1/16W
R828	1-218-903-11	RES,CHIP	220K	0.50%	1/16W (T405)
R829	1-218-901-11	RES,CHIP	180K	0.50%	1/16W (T405)
R830	1-218-907-11	RES,CHIP	330K	0.50%	1/16W (T401, T405)
R832	1-216-833-11	METAL CHIP	10K	5%	1/16W
R835	1-216-821-11	METAL CHIP	1K	5%	1/16W
R836	1-218-895-11	RES,CHIP	100K	0.50%	1/16W
R837	1-218-895-11	RES,CHIP	100K	0.50%	1/16W
R838	1-216-857-11	METAL CHIP	1M	5%	1/16W
R841	1-216-821-11	METAL CHIP	1K	5%	1/16W
R842	1-216-821-11	METAL CHIP	1K	5%	1/16W
R843	1-216-821-11	METAL CHIP	1K	5%	1/16W
R844	1-216-833-11	METAL CHIP	10K	5%	1/16W
R847	1-216-295-91	SHORT	0		
R848	1-216-857-11	METAL CHIP	1M	5%	1/16W
R849	1-216-821-11	METAL CHIP	1K	5%	1/16W
R850	1-216-821-11	METAL CHIP	1K	5%	1/16W
R851	1-216-821-11	METAL CHIP	1K	5%	1/16W
R852	1-216-864-11	METAL CHIP	0	5%	1/16W
R853	1-216-864-11	METAL CHIP	0	5%	1/16W
R854	1-216-864-11	METAL CHIP	0	5%	1/16W
R855	1-216-821-11	METAL CHIP	1K	5%	1/16W
R856	1-216-821-11	METAL CHIP	1K	5%	1/16W
R857	1-216-821-11	METAL CHIP	1K	5%	1/16W
R858	1-216-821-11	METAL CHIP	1K	5%	1/16W
R859	1-216-864-11	METAL CHIP	0	5%	1/16W
R860	1-216-864-11	METAL CHIP	0	5%	1/16W
R861	1-216-864-11	METAL CHIP	0	5%	1/16W (T401, T405)
R862	1-216-864-11	METAL CHIP	0	5%	1/16W
R863	1-216-864-11	METAL CHIP	0	5%	1/16W
R864	1-216-864-11	METAL CHIP	0	5%	1/16W
R865	1-216-864-11	METAL CHIP	0	5%	1/16W
R866	1-216-864-11	METAL CHIP	0	5%	1/16W
R867	1-216-864-11	METAL CHIP	0	5%	1/16W
R868	1-216-821-11	METAL CHIP	1K	5%	1/16W

< VARIABLE RESISTOR >

RV301	1-223-382-11	RES, VAR, CARBON 10K/10K(VOLUME)
RV401	1-241-395-11	RES, ADJ, METAL GLAZE 10K
RV501	1-241-395-11	RES, ADJ, METAL GLAZE 10K
RV502	1-223-587-11	RES, ADJ, CARBON 22K
RV503	1-223-587-11	RES, ADJ, CARBON 22K

Ref. No.	Part No.	Description	Remarks
		< SWITCH >	
S301	1-762-078-11	SWITCH, SLIDE (AVLS)	
S801	1-570-953-11	SWITCH, PUSH (1 KEY) (OPEN)	
S802	1-762-455-21	SWITCH, PUSH (1 KEY) (BATT)	
S803	1-762-078-11	SWITCH, SLIDE (RESUME)	
S804	1-762-078-11	SWITCH, SLIDE (HOLD)	
		< TRANSFORMER >	
T401	1-429-850-11	TRANSFORMER, DC-DC CONVERTER	
T402	1-429-851-11	TRANSFORMER, DC-DC CONVERTER	
		< VIBRATOR >	
X301	1-760-023-21	VIBRATOR, CRYSTAL 16.9MHz	
X801	1-579-063-21	VIBRATOR, CERAMIC 4.19MHz	
**********			
	A-3306-394-A	ESP BOARD, COMPLETE (T405)	
		**********	
	A-3306-405-A	ESP BOARD, COMPLETE (T401)	
		**********	
		< CAPACITOR >	
C601	1-164-346-11	CERAMIC CHIP 1uF 16V	(T401, T405)
C602	1-164-156-11	CERAMIC CHIP 0.1uF 25V	(T401, T405)
C603	1-164-346-11	CERAMIC CHIP 1uF 16V	(T401, T405)
		< CONNECTOR >	
CN602	1-778-710-41	CONNECTOR, BOARD TO BOARD 24P	(T401, T405)
		< IC >	
IC601	8-759-445-16	IC SM5859AF (T401)	
IC601	8-759-489-29	IC SM5858DF (T405)	
IC602	8-759-498-44	IC MSM51V4400D-70TSK (T401, T405)	
		< JUMPER CHIP >	
JC604	1-216-864-11	METAL CHIP 0 5% 1/16W	(T401, T405)
		< RESISTOR >	
R602	1-216-833-11	METAL CHIP 10K 5% 1/16W	(T401, T405)
R609	1-216-864-11	METAL CHIP 0 5% 1/16W	(T401, T405)
R612	1-216-821-11	METAL CHIP 1K 5% 1/16W	(T405)
R614	1-216-864-11	METAL CHIP 0 5% 1/16W	(T405)
R615	1-216-864-11	METAL CHIP 0 5% 1/16W	(T405)
**********			

Ref. No.	Part No.	Description	Remarks
	A-3293-384-A	TUNER BOARD, COMPLETE (JEW)	
		**********	
	A-3293-385-A	TUNER BOARD, COMPLETE	
		**********	
			(E13, E33, E92, CN, AUS, US, CND, HK)
	A-3293-386-A	TUNER BOARD, COMPLETE	
		**********	
			(AEP, IT, UK, EA, FR)
	1-694-264-11	CONDUCTIVE BOARD, CONNECTION	
	4-989-982-01	HOLDER (LCD)	
		< CAPACITOR >	
C6	1-162-927-11	CERAMIC CHIP 100PF 5% 50V	
C7	1-162-964-11	CERAMIC CHIP 0.001uF 10% 50V	
C8	1-162-915-11	CERAMIC CHIP 10PF 0.5PF 50V	
C9	1-162-923-11	CERAMIC CHIP 47PF 5% 50V	
C10	1-162-923-11	CERAMIC CHIP 47PF 5% 50V	
C11	1-162-970-11	CERAMIC CHIP 0.01uF 10% 25V	
C12	1-162-964-11	CERAMIC CHIP 0.001uF 10% 50V	
C13	1-162-911-11	CERAMIC CHIP 6PF 0.5PF 50V	
C14	1-162-913-11	CERAMIC CHIP 8PF 0.5PF 50V	
C15	1-162-975-11	CERAMIC CHIP 24PF 5% 50V	
C16	1-162-927-11	CERAMIC CHIP 100PF 5% 50V	
C17	1-162-927-11	CERAMIC CHIP 100PF 5% 50V	
C18	1-162-912-11	CERAMIC CHIP 7PF 0.5PF 50V	(EXCEPT JEW)
C19	1-162-905-11	CERAMIC CHIP 1PF 0.25PF 50V	
C20	1-162-928-11	CERAMIC CHIP 120PF 5% 50V	
C21	1-162-905-11	CERAMIC CHIP 1PF 0.25PF 50V	
C22	1-162-964-11	CERAMIC CHIP 0.001uF 10% 50V	
C23	1-104-852-11	TANTAL. CHIP 22uF 20% 10V	
C24	1-162-970-11	CERAMIC CHIP 0.01uF 10% 25V	
C25	1-162-970-11	CERAMIC CHIP 0.01uF 10% 25V	
C26	1-162-970-11	CERAMIC CHIP 0.01uF 10% 25V	
C27	1-164-156-11	CERAMIC CHIP 0.1uF 25V	
C28	1-162-970-11	CERAMIC CHIP 0.01uF 10% 25V	
C29	1-164-227-11	CERAMIC CHIP 0.022uF 10% 25V	
C30	1-164-816-11	CERAMIC CHIP 220PF 2% 50V	
C31	1-162-927-11	CERAMIC CHIP 100PF 5% 50V	
C32	1-164-227-11	CERAMIC CHIP 0.022uF 10% 25V	
C33	1-104-852-11	TANTAL. CHIP 22uF 20% 10V	
C34	1-162-927-11	CERAMIC CHIP 100PF 5% 50V	
C35	1-162-918-11	CERAMIC CHIP 18PF 5% 50V	
C36	1-162-923-11	CERAMIC CHIP 47PF 5% 50V	
C37	1-164-315-11	CERAMIC CHIP 470PF 5% 50V	
C38	1-162-923-11	CERAMIC CHIP 47PF 5% 50V	
C39	1-164-227-11	CERAMIC CHIP 0.022uF 10% 25V	
C40	1-104-852-11	TANTAL. CHIP 22uF 20% 10V	
C41	1-165-176-11	CERAMIC CHIP 0.047uF 10% 16V	
C42	1-164-227-11	CERAMIC CHIP 0.022uF 10% 25V	
C43	1-162-927-11	CERAMIC CHIP 100PF 5% 50V	
C44	1-104-912-11	TANTAL. CHIP 3.3uF 20% 16V	
C45	1-164-362-11	CERAMIC CHIP 470PF 5% 50V	
C46	1-162-961-11	CERAMIC CHIP 330PF 10% 50V	
C47	1-115-156-11	CERAMIC CHIP 1uF 10V	
C48	1-115-156-11	CERAMIC CHIP 1uF 10V	
C49	1-104-912-11	TANTAL. CHIP 3.3uF 20% 16V	
C50	1-163-139-00	CERAMIC CHIP 820PF 5% 50V	

TUNER

Ref. No.	Part No.	Description			Remarks
C51	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C52	1-104-912-11	TANTAL. CHIP	3.3uF	20%	16V
C53	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C54	1-164-345-11	CERAMIC CHIP	0.082uF	10%	25V
C55	1-165-176-11	CERAMIC CHIP	0.047uF	10%	16V
C56	1-162-968-11	CERAMIC CHIP	0.0047uF	10%	50V
C57	1-162-968-11	CERAMIC CHIP	0.0047uF	10%	50V
C58	1-162-968-11	CERAMIC CHIP	0.0047uF	10%	50V
C59	1-115-156-11	CERAMIC CHIP	1uF		10V
C60	1-115-156-11	CERAMIC CHIP	1uF		10V
C61	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C62	1-164-315-11	CERAMIC CHIP	470PF	5%	50V
C63	1-110-501-11	CERAMIC CHIP	0.33uF	10%	16V
C64	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C65	1-109-982-11	CERAMIC CHIP	1uF	10%	10V
C66	1-164-227-11	CERAMIC CHIP	0.022uF	10%	25V
C67	1-165-176-11	CERAMIC CHIP	0.047uF	10%	16V
C68	1-164-227-11	CERAMIC CHIP	0.022uF	10%	25V
C69	1-104-852-11	TANTAL. CHIP	22uF	20%	10V
C70	1-164-315-11	CERAMIC CHIP	470PF	5%	50V
C71	1-109-982-11	CERAMIC CHIP	1uF	10%	10V
C72	1-115-156-11	CERAMIC CHIP	1uF		10V
C73	1-162-965-11	CERAMIC CHIP	0.0015uF	10%	50V
C74	1-104-912-11	TANTAL. CHIP	3.3uF	20%	16V
C75	1-115-156-11	CERAMIC CHIP	1uF		10V
C80	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C81	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C82	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C83	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C84	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C85	1-164-315-11	CERAMIC CHIP	470PF	5%	50V
C86	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C87	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C88	1-104-912-11	TANTAL. CHIP	3.3uF	20%	16V
C89	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C90	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C91	1-162-917-11	CERAMIC CHIP	15PF	5%	50V
C92	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C93	1-104-852-11	TANTAL. CHIP	22uF	20%	10V
C94	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C96	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C98	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C99	1-164-315-11	CERAMIC CHIP	470PF	5%	50V
C100	1-164-315-11	CERAMIC CHIP	470PF	5%	50V
C101	1-164-315-11	CERAMIC CHIP	470PF	5%	50V
C102	1-164-315-11	CERAMIC CHIP	470PF	5%	50V
C103	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C104	1-104-912-11	TANTAL. CHIP	3.3uF	20%	16V
C105	1-162-917-11	CERAMIC CHIP	15PF	5%	50V
		< FILTER >			
CF1	1-767-313-11	FILTER, CERAMIC			
CF2	1-579-823-21	FILTER, CERAMIC			
CF3	1-767-357-11	FILTER, CERAMIC			
CF4	1-767-313-11	FILTER, CERAMIC			
		< CONNECTOR >			
CN1	1-691-499-11	CONNECTOR, FFC/FPC 20P			

Ref. No.	Part No.	Description	Remarks
		< TRIMMER >	
CT2	1-141-327-11	CAP, CHIP TYPE TRIMMER 10PF	
CT3	1-141-327-11	CAP, CHIP TYPE TRIMMER 10PF	
		< DIODE >	
D1	8-719-421-69	DIODE MA133	
D2	8-719-988-62	DIODE 1SS355	
D3	8-719-951-05	DIODE KV1560	
D4	8-719-053-30	DIODE MA2S357- (TX). SO	
D5	8-719-053-30	DIODE MA2S357- (TX). SO	
D6	8-719-938-72	DIODE SB01-05CP	
D8	8-719-056-88	DIODE UDZ-TE-17-11B	
D9	8-719-988-62	DIODE 1SS355	
D10	8-719-938-72	DIODE SB01-05CP	
D14	8-719-988-62	DIODE 1SS355	
D15	8-719-988-62	DIODE 1SS355	
D16	8-719-988-62	DIODE 1SS355	
		< FILTER >	
FL1	1-236-069-21	FILTER, BAND PASS (E13, E33, E92, CN, AUS, US, CND, HK, JEW)	
FL1	1-236-053-11	FILTER, BAND PASS (AEP, IT, UK, EA, FR)	
		< IC >	
IC1	8-759-485-60	IC RN5VT23AA-TR	
IC2	8-759-362-25	IC TA-2022AFN-EL	
IC3	8-759-493-39	IC RN5RZ33BA-TR	
IC4	8-759-485-60	IC RN5VT23AA-TR	
IC5	8-759-484-54	IC uPD17072GB-547-1A7	
IC6	8-759-449-23	IC AK93C55AV-L	
IC7	8-759-293-74	IC NJM2100E	
IC8	8-759-484-56	IC uPD754302GS-049-E1	
		< JUMPER CHIP >	
JC7	1-216-864-11	METAL CHIP 0 5%	1/16W
JC8	1-216-864-11	METAL CHIP 0 5%	1/16W
		< COIL >	
L1	1-412-006-31	INDUCTOR CHIP 10uH	
L2	1-402-974-21	COIL (WITH CORE) (FM-RF)	
L3	1-416-263-11	COIL (WITH CORE) (EXCEPT JEW)	
L3	1-402-975-21	COIL (WITH CORE) (FM-OSC) (JEW)	
L4	1-412-002-31	INDUCTOR CHIP 4.7uH	
L5	1-412-002-31	INDUCTOR CHIP 4.7uH	
L6	1-412-006-31	INDUCTOR CHIP 10uH	
L7	1-416-164-11	COIL, FERRITE-ROD ANTENNA	
L8	1-412-029-11	INDUCTOR CHIP 10uH	
L9	1-412-032-11	INDUCTOR CHIP 100uH	
L10	1-412-006-31	INDUCTOR CHIP 10uH	
L11	1-412-002-31	INDUCTOR CHIP 4.7uH	
L12	1-412-011-31	INDUCTOR CHIP 27uH (JEW)	
		< FLUORESCENT INDICATOR >	
ND1	1-801-719-11	DISPLAY PANEL, LIQUID CRYSTAL	

Ref. No.	Part No.	Description				Remarks
		< TRANSISTOR >				
Q1	8-729-923-28	TRANSISTOR	2SC4083-N			
Q2	8-729-923-28	TRANSISTOR	2SC4083-N			
Q3	8-729-923-28	TRANSISTOR	2SC4083-N			
Q4	8-729-423-52	TRANSISTOR	2SC3931-C			
Q5	8-729-423-52	TRANSISTOR	2SC3931-C			
Q7	8-729-117-72	TRANSISTOR	2SC4178-F13			
Q10	8-729-429-71	TRANSISTOR	XN4314			
Q11	8-729-402-93	TRANSISTOR	UN5214-TX			
Q12	8-729-420-53	TRANSISTOR	UN5115			
Q13	8-729-420-53	TRANSISTOR	UN5115			
Q14	8-729-602-21	TRANSISTOR	2SC4154-F			
Q16	8-729-800-71	TRANSISTOR	2SB815B7-TB			
Q17	8-729-231-96	TRANSISTOR	2SK880GR-TE85L			
Q19	8-729-602-21	TRANSISTOR	2SC4154-F			
Q20	8-729-231-96	TRANSISTOR	2SK880GR-TE85L			
Q22	8-729-800-37	TRANSISTOR	2SD1048-X7			
Q23	8-729-400-55	TRANSISTOR	2SD1328-S			
Q24	8-729-800-71	TRANSISTOR	2SB815B7-TB			
Q28	8-729-420-53	TRANSISTOR	UN5115			
Q29	8-729-420-53	TRANSISTOR	UN5115			
Q30	8-729-423-52	TRANSISTOR	2SC3931-C			
Q31	8-729-423-52	TRANSISTOR	2SC3931-C			
Q32	8-729-017-44	TRANSISTOR	2SC4944-TE85R			
Q33	8-729-800-71	TRANSISTOR	2SB815B7-TB			
Q35	8-729-800-71	TRANSISTOR	2SB815B7-TB			
Q36	8-729-429-71	TRANSISTOR	XN4314			
Q37	8-729-429-71	TRANSISTOR	XN4314			
Q38	8-729-429-71	TRANSISTOR	XN4314			
Q39	8-729-420-16	TRANSISTOR	XN1214			
Q40	8-729-402-93	TRANSISTOR	UN5214-TX			
Q41	8-729-429-71	TRANSISTOR	XN4314 (JEW)			
Q42	8-729-402-93	TRANSISTOR	UN5214-TX			
Q43	8-729-420-16	TRANSISTOR	XN1214			
Q44	8-729-030-46	TRANSISTOR	XP4314-TX			
		< RESISTOR >				
R1	1-216-843-11	METAL CHIP	68K	5%	1/16W	
R2	1-216-853-11	METAL CHIP	470K	5%	1/16W	
R4	1-216-845-11	METAL CHIP	100K	5%	1/16W	
R5	1-216-829-11	METAL CHIP	4.7K	5%	1/16W	(EXCEPT JEW)
R5	1-216-825-11	METAL CHIP	2.2K	5%	1/16W	(JEW)
R6	1-216-839-11	METAL CHIP	33K	5%	1/16W	(JEW)
R6	1-216-837-11	METAL CHIP	22K	5%	1/16W	(EXCEPT JEW)
R8	1-216-853-11	METAL CHIP	470K	5%	1/16W	
R9	1-216-827-11	METAL CHIP	3.3K	5%	1/16W	
R10	1-216-809-11	METAL CHIP	100	5%	1/16W	
R11	1-216-815-11	METAL CHIP	330	5%	1/16W	
R12	1-216-843-11	METAL CHIP	68K	5%	1/16W	
R13	1-216-821-11	METAL CHIP	1K	5%	1/16W	
R14	1-216-813-11	METAL CHIP	220	5%	1/16W	
R16	1-216-821-11	METAL CHIP	1K	5%	1/16W	

Ref. No.	Part No.	Description			Remarks
R18	1-216-825-11	METAL CHIP	2.2K	5%	1/16W
R19	1-216-845-11	METAL CHIP	100K	5%	1/16W
R20	1-216-833-11	METAL CHIP	10K	5%	1/16W
R21	1-216-857-11	METAL CHIP	1M	5%	1/16W
R22	1-216-853-11	METAL CHIP	470K	5%	1/16W
R23	1-216-833-11	METAL CHIP	10K	5%	1/16W
R24	1-216-857-11	METAL CHIP	1M	5%	1/16W
R25	1-216-837-11	METAL CHIP	22K	5%	1/16W
R26	1-216-826-11	METAL CHIP	2.7K	5%	1/16W
R27	1-216-829-11	METAL CHIP	4.7K	5%	1/16W
R28	1-216-833-11	METAL CHIP	10K	5%	1/16W
R29	1-216-837-11	METAL CHIP	22K	5%	1/16W
R30	1-216-833-11	METAL CHIP	10K	5%	1/16W
R31	1-216-833-11	METAL CHIP	10K	5%	1/16W
R32	1-216-823-11	METAL CHIP	1.5K	5%	1/16W
R34	1-216-817-11	METAL CHIP	470	5%	1/16W
R35	1-216-829-11	METAL CHIP	4.7K	5%	1/16W
R36	1-216-828-11	METAL CHIP	3.9K	5%	1/16W
R37	1-216-821-11	METAL CHIP	1K	5%	1/16W
R38	1-216-825-11	METAL CHIP	2.2K	5%	1/16W
R39	1-216-833-11	METAL CHIP	10K	5%	1/16W
R40	1-216-837-11	METAL CHIP	22K	5%	1/16W
R41	1-216-829-11	METAL CHIP	4.7K	5%	1/16W
R42	1-216-843-11	METAL CHIP	68K	5%	1/16W
R43	1-216-857-11	METAL CHIP	1M	5%	1/16W
R44	1-216-833-11	METAL CHIP	10K	5%	1/16W
R45	1-216-821-11	METAL CHIP	1K	5%	1/16W
R46	1-216-819-11	METAL CHIP	680	5%	1/16W (EXCEPT JEW)
R47	1-216-841-11	METAL CHIP	47K	5%	1/16W
R48	1-216-857-11	METAL CHIP	1M	5%	1/16W
R50	1-216-864-11	METAL CHIP	0	5%	1/16W
R51	1-216-833-11	METAL CHIP	10K	5%	1/16W
R52	1-216-846-11	METAL CHIP	120K	5%	1/16W
R53	1-216-819-11	METAL CHIP	680	5%	1/16W
R54	1-216-829-11	METAL CHIP	4.7K	5%	1/16W
R55	1-216-845-11	METAL CHIP	100K	5%	1/16W
R56	1-216-833-11	METAL CHIP	10K	5%	1/16W
R57	1-218-880-11	RES,CHIP	24K	0.50%	1/16W (E13, E33, E92, CN, AUS, US, CND, HK, JEW)
R58	1-216-864-11	METAL CHIP	0	5%	1/16W (AEP, IT, UK, EA, FR)
R60	1-216-809-11	METAL CHIP	100	5%	1/16W
R61	1-216-835-11	METAL CHIP	15K	5%	1/16W
R62	1-216-833-11	METAL CHIP	10K	5%	1/16W
R63	1-216-821-11	METAL CHIP	1K	5%	1/16W
R64	1-216-821-11	METAL CHIP	1K	5%	1/16W
R65	1-216-821-11	METAL CHIP	1K	5%	1/16W
R66	1-216-821-11	METAL CHIP	1K	5%	1/16W
R67	1-216-837-11	METAL CHIP	22K	5%	1/16W
R68	1-216-823-11	METAL CHIP	1.5K	5%	1/16W
R69	1-216-809-11	METAL CHIP	100	5%	1/16W
R70	1-216-809-11	METAL CHIP	100	5%	1/16W
R71	1-216-837-11	METAL CHIP	22K	5%	1/16W
R72	1-216-821-11	METAL CHIP	1K	5%	1/16W
R73	1-216-833-11	METAL CHIP	10K	5%	1/16W
R74	1-216-821-11	METAL CHIP	1K	5%	1/16W
R75	1-216-841-11	METAL CHIP	47K	5%	1/16W

TUNER

Ref. No.	Part No.	Description			Remarks
R76	1-216-841-11	METAL CHIP	47K	5%	1/16W
R77	1-216-841-11	METAL CHIP	47K	5%	1/16W
R78	1-216-853-11	METAL CHIP	470K	5%	1/16W
R79	1-216-853-11	METAL CHIP	470K	5%	1/16W
R80	1-216-821-11	METAL CHIP	1K	5%	1/16W
R81	1-216-823-11	METAL CHIP	1.5K	5%	1/16W
R82	1-216-825-11	METAL CHIP	2.2K	5%	1/16W
R83	1-216-827-11	METAL CHIP	3.3K	5%	1/16W
R84	1-216-829-11	METAL CHIP	4.7K	5%	1/16W
R85	1-216-831-11	METAL CHIP	6.8K	5%	1/16W
R86	1-216-833-11	METAL CHIP	10K	5%	1/16W
R87	1-216-821-11	METAL CHIP	1K	5%	1/16W
R90	1-216-841-11	METAL CHIP	47K	5%	1/16W
R91	1-216-841-11	METAL CHIP	47K	5%	1/16W
R92	1-216-845-11	METAL CHIP	100K	5%	1/16W
R93	1-216-845-11	METAL CHIP	100K	5%	1/16W
R94	1-216-847-11	METAL CHIP	150K	5%	1/16W
R95	1-216-833-11	METAL CHIP	10K	5%	1/16W
R96	1-216-845-11	METAL CHIP	100K	5%	1/16W
R97	1-216-845-11	METAL CHIP	100K	5%	1/16W
R98	1-216-847-11	METAL CHIP	150K	5%	1/16W
R99	1-216-833-11	METAL CHIP	10K	5%	1/16W
R100	1-216-833-11	METAL CHIP	10K	5%	1/16W
R101	1-216-833-11	METAL CHIP	10K	5%	1/16W
R102	1-216-845-11	METAL CHIP	100K	5%	1/16W
R103	1-216-845-11	METAL CHIP	100K	5%	1/16W
R112	1-216-821-11	METAL CHIP	1K	5%	1/16W
R113	1-216-833-11	METAL CHIP	10K	5%	1/16W
R114	1-216-849-11	METAL CHIP	220K	5%	1/16W
R115	1-218-880-11	RES,CHIP	24K	0.50%	1/16W
		< VARIABLE RESISTOR >			
RV1	1-223-578-11	RES, ADJ, METAL GLAZE 22K			
		< SWITCH >			
S1	1-771-053-21	SWITCH, KEY BOARD (TUNE+)			
S2	1-771-053-21	SWITCH, KEY BOARD (BAND)			
S3	1-771-053-21	SWITCH, KEY BOARD (2)			
S4	1-771-053-21	SWITCH, KEY BOARD (4)			
S5	1-771-053-21	SWITCH, KEY BOARD (TUNE–)			
S6	1-771-053-21	SWITCH, KEY BOARD (1)			
S7	1-771-053-21	SWITCH, KEY BOARD (3)			
S8	1-771-053-21	SWITCH, KEY BOARD (5)			
S10	1-572-922-11	SWITCH, SLIDE (FUNCTION)			
S11	1-572-922-11	SWITCH, SLIDE (STEP) (E13, E33, E92, CN, AUS, US, CND, HK, JEW)			
S12	1-692-605-11	SWITCH, SLIDE (MEGA BASS)			
S21	1-771-053-21	SWITCH, KEY BOARD (PLAY/PAUSE)			
S22	1-771-053-21	SWITCH, KEY BOARD (FR)			
S23	1-771-053-21	SWITCH, KEY BOARD (FF)			
S24	1-771-053-21	SWITCH, KEY BOARD (STOP)			
S25	1-771-053-21	SWITCH, KEY BOARD (PLAY MODE)			
S26	1-771-053-21	SWITCH, KEY BOARD (REPEAT/ENT)			
S28	1-771-053-21	SWITCH, KEY BOARD (ESP)			

Ref. No.	Part No.	Description	Remarks
		< TRANSFORMER >	
T1	1-416-184-11	COIL, IFT	
T2	1-411-603-11	COIL (AM-MIX)	
T3	1-431-243-11	TRANSFORMER, DC-DC CONVERTER	
T4	1-406-404-11	COIL (MW OSCILATION)	
		< VIBRATOR >	
X1	1-760-423-11	VIBRATOR, CRYSTAL 75kHz	
X2	1-579-063-21	VIBRATOR, CERAMIC 4.19MHz	

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ACCESSORIES & PACKING MATERIALS

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⚠	1-467-007-21	ADAPTOR, AC (AC-E455) (AUS)	
⚠	1-467-009-21	ADAPTOR, AC (AC-E455) (US, CND)	
⚠	1-467-012-11	ADAPTOR, AC (AC-E455) (EA)	
⚠	1-467-195-11	ADAPTOR, AC (AC-E455A) (US, CND ,E92)	
⚠	1-467-550-11	ADAPTOR, AC (AC-E455A) (JEW)	
⚠	1-467-550-11	ADAPTOR, AC (AC-E455A) (E33, JEW)	
⚠	1-473-115-11	ADAPTOR, AC (AC-E455D) (UK)	
⚠	1-473-116-31	ADAPTOR, AC (AC-E455D) (AEP, IT, FR, E13, CN)	
⚠	1-475-623-11	ADAPTOR, AC (AC-E455) (HK)	
	1-528-444-11	BATTERY PACK (BP-DM10) (T405: CND, E13, E33, E92, CN, HK, AUS, JEW)	
	1-528-444-31	BATTERY PACK (BP-DM10) (T405: US)	
	1-528-444-81	BATTERY PACK (BP-DM10) (T405: AEP, IT, UK, FR)	
	1-559-906-32	CORD, CONNECTION (T101/T401,T405: US, CND, E13, E33, E92, CN, AUS/T405: HK)	
⚠	1-569-007-11	ADAPTOR, CONVERSION 2P (T405: JEW)	
⚠	1-569-007-11	ADAPTOR, CONVERSION 2P (E33, JEW)	
⚠	1-569-008-11	ADAPTOR, CONVERSION 2P (E13, EA, CN)	
⚠	1-569-008-21	ADAPTOR, CONVERSION 2P (E13, EA, CN)	
	1-751-419-11	CORD, CONNECTIONT (T101/T401, T405: US, CND, E13, E33, E92, CN, AUS/T405: HK)	
	1-759-042-21	BATTERY CASE (T405: AEP, IT, UK, FR, E13, E33, CN, HK, AUS, JEW)	
	1-769-723-11	CORD, CONNECTION (T101/T401, T405: US, CND, E13, E33, E92, CN, AUS/T405: HK)	
	3-860-092-11	MANUAL, INSTRUCTION (SPANISH) (T101: AEP)	
	3-860-092-21	MANUAL, INSTRUCTION (ENGLISH) (T101: AEP, UK, EA)	
	3-860-092-31	MANUAL, INSTRUCTION (FRENCH) (T101: AEP)	
	3-860-092-41	MANUAL, INSTRUCTION (DUTCH) (T101: AEP)	
	3-860-092-51	MANUAL, INSTRUCTION (SWEDISH) (T101: AEP)	
	3-860-092-61	MANUAL, INSTRUCTION (PORTUGUESE) (T101: AEP)	
	3-860-092-81	MANUAL, INSTRUCTION (ITALIAN) (T101: IT)	
	3-860-093-11	MANUAL, INSTRUCTION (CHINESE) (T101: E13, CN)	

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.	Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

Ref. No.	Part No.	Description	Remarks
	3-860-093-21	MANUAL, INSTRUCTION (ENGLISH)	(T101: E13, CN)
	3-860-094-11	MANUAL, INSTRUCTION (SPANISH)	(T401: AEP)
	3-860-094-21	MANUAL, INSTRUCTION (ENGLISH)	(T401: AEP, UK)
	3-860-094-31	MANUAL, INSTRUCTION (FRENCH) (T401: AEP)	
	3-860-094-41	MANUAL, INSTRUCTION (DUTCH) (T401: AEP)	
	3-860-094-51	MANUAL, INSTRUCTION (SWEDISH)	(T401: AEP)
	3-860-094-61	MANUAL, INSTRUCTION (PORTUGUESE)	(T401: AEP)
	3-860-094-81	MANUAL, INSTRUCTION (ITALIAN) (T401: IT)	
	3-860-095-11	MANUAL, INSTRUCTION (CHINESE)	(T401: E13, CN)
	3-860-095-21	MANUAL, INSTRUCTION (ENGLISH)	(T401: E13, CN)
	3-860-096-01	MANUAL, INSTRUCTION (ENGLISH)	(T405: JEW)
	3-860-096-11	MANUAL, INSTRUCTION (SPANISH)	(T405: E33, E92, JEW)
	3-860-096-21	MANUAL, INSTRUCTION (ENGLISH)	(T405: US, CND, E33, E92, AUS, JEW)
	3-860-096-31	MANUAL, INSTRUCTION (FRENCH)	(T405: CND, JEW)
	3-860-096-41	MANUAL, INSTRUCTION (CHINESE)	(T405: JEW)
	3-860-096-51	MANUAL, INSTRUCTION (KOREAN)	(T405: JEW)
	3-860-097-11	MANUAL, INSTRUCTION (CHINESE)	(T405: E13, CN, HK)
	3-860-097-21	MANUAL, INSTRUCTION (ENGLISH)	(T405: E13, CN, HK)
	3-860-100-11	MANUAL, INSTRUCTION (SPANISH)	(T405: AEP)
	3-860-100-21	MANUAL, INSTRUCTION (ENGLISH)	(T405: AEP, UK, FR)
	3-860-100-31	MANUAL,INSTRUCTION (FRENCH)	(T405: AEP, FR)
	3-860-100-41	MANUAL, INSTRUCTION (DUTCH) (T405: AEP)	
	3-860-100-51	MANUAL, INSTRUCTION (SWEDISH)	(T405: AEP)
	3-860-100-61	MANUAL, INSTRUCTION (POTUGUESE)	(T405: AEP)
	3-860-100-81	MANUAL, INSTRUCTION (ITALIAN)(T405: IT)	
	3-860-101-11	MANUAL, INSTRUCTION (SPANISH)	(T401: E33, E92)
	3-860-101-21	MANUAL, INSTRUCTION (ENGLISH)	(T401: US, CND, E33, E92, AUS)
	3-860-101-31	MANUAL, INSTRUCTION (FRENCH)	(T401: CND)
	3-860-113-11	MANUAL, INSTRUCTION (SPANISH)	(T101: E33, E92)
	3-860-113-21	MANUAL, INSTRUCTION (ENGLISH)	(T101: E33, E92, AUS)
	4-985-631-01	CASE, CARRYING (T405: EXCEPT US)	
*	4-985-695-01	CUSHION (T101/T401, T405: EXCEPT US)	
	4-986-066-01	CASE, CARRYING (T405: US)	
	8-917-594-90	REMOCON,SONY WIRED RM-DM23T	(T405:EXCEPT US)
	8-953-342-93	HEADPHONE MDR-24/K1 SET (US)	
	8-953-342-93	HEADPHONE MDR-24/1 SET (T405: US)	
	8-953-537-90	HEADPHONE MDR-E741MP//K3 SET	(T405: EXCEPT US)
	8-953-538-90	HEADPHONE MDR-E741//K2 SET	(T101/T401: EXCEPT US)

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HARDWARE LIST
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Ref. No.	Part No.	Description	Remarks
#1	7-627-850-17	SCREW, PRECISION +P 1.4 × 2.5	

9-923-240-81

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Personal A&V Products Company

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